# Service Manual

dbx/Dolby NR-Equipped
Stereo Double Cassette Deck

Cassette Deck

#### Color

(K)...Black Type

#### Area

Country Code	Area	Color
(P)	U.S.A.	(K)
(PC)	Canada.	(K)
(E, E5)	Continental Europe.	(K)
(EB)	Great Britain.	(K)
(EG)	F.R.G. and Italy (West Germany).	(K)
(GC)	Third Region.	(K)
(GN)	Oceania.	(K)
(PE)	Europe-PX.	(K)
(PX)	Far East-PX	(K)

# DOLBY B-C NR HX PRO



#### **SPECIFICATIONS**

#### **■ CASSETTE DECK SECTION**

Deck system	Stereo cassette deck
Track system	4-track, 2-channel
Heads	
(tape deck 1) Rec/play	Permalloy head
Erasing	Double-gap ferrite head
(tape deck 2) Rec/play	Permalloy head
Erasing	Double-gap ferrite head
Motors	
(tape deck 1) Capstan	DC servo motor
Reel table drive	DC motor
(tape deck 2) Capstan	DC servo motor
Reel table drive	DC motor
Recording system	AC bias
Bias frequency	80 kHz
Erasing system	AC erase
Tape speed	4.8 cm/sec. (17/8 ips)
Frequency response	
NORMAL	20 Hz∼18 kHz
	20 Hz~17 kHz (DIN)
CrO <sub>2</sub>	20 Hz∼18 kHz
	20 Hz~17 kHz (DIN)
METAL	20 Hz∼19 kHz
	20 Hz~18 kHz (DIN)
S/N (signal level=max recording le	vel, CrO <sub>2</sub> type tape)
dbx on	92 dB (A weighted)

**Technics** 

Dolby C NR on

Dolby B NR on

(Except P.PC Areas)

Dolby NR off

Wow and flutter

Matsushita Services Company 50 Meadowland Parkway, Secaucus, New Jersey 07094

74 dB (CCIR)

66 dB (CCIR)

56 dB (A weighted)

0.07% (WRMS)

±0.2% (DIN)

Panasonic Sales Company, Division of Matsushita Electric of Puerto Rico, Inc. San Gabriel Industrial Park 65th Infantry Ave. Km. 9.5 Carolina, P.R. 00630 Fast forward and rewind time

Approx. 100 seconds with C-60 cassette tape

Input sensitivity and impedance LINE 60 mV/47 k $\Omega$ 

Output voltage and impedance
LINE 400 mV/800Ω
HEADPHONES 30 mV/8Ω

LOAD IMPEDANCE

# (8Ω~600Ω)

#### **GENERAL**

 Power consumption
 22 W

 Power supply
 For U.S.A. and Canada
 AC 120 V, 60 Hz

 For Great Britain and Oceania
 AC 240 V, 50/60 Hz

 For Continental Europe
 AC 220 V, 50/60 Hz

 For others
 AC 110 V/127 V/220 V/240 V, 50/60 Hz

 Dimensions (W×H×D)
 430×136×290 mm

 (1615/16"×53%"×1113/32")
 (1615/16"×53%"×1113/32")

Weight

5.5 kg (12.1 lb.)

#### Note:

Specifications are subject to change without notice. Weight and dimensions are approximate.

- \* HX Pro headroom extension originated by Bang Olufsen and manufactured under license from Dolby Laboratories Licensing Corporation. "DOLBY", the double-D symbol, and "HX PRO" are trademarks of Dolby Laboratories Licensing Corporation.
- \*\* The term dbx is a registered trademark of dbx Inc.

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Matsushita Electric of Canada Limited 5770 Ambler Drive, Mississauga, Ontario, L4W 2T3 Matsushita Electric Industrial Co., Ltd. Central P.O. Box 288, Osaka 530-91, Japan

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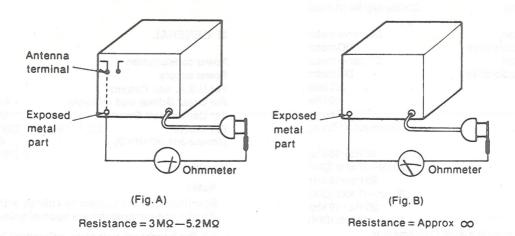
#### SAFETY PRECAUTION (This "safety precaution" is applied only in U.S.A.)

- 1. Before servicing, unplug the power cord to prevent an electric shock.
- 2. When replacing parts, use only manufacturer's recommended components for safety.
- 3. Check the condition of the power cord. Replace if wear or damage is evident.
- 4. After servicing, be sure to restore the lead dress, insulation barriers, insulation papers, shields, etc.
- 5. Before returning the serviced equipment to the customer, be sure to make the following insulation resistance test to prevent the customer from being exposed to a shock hazard.

#### INSULATION RESISTANCE TEST

- 1. Unplug the power cord and short the two prongs of the plug with a jumper wire.
- 2. Turn on the power switch.
- 3. Measure the resistance value with ohmmeter between the jumpered AC plug and each exposed metal cabinet part, such as screwheads antenna, control shafts, handle brackets, etc. Equipment with antenna terminals should read between  $3M\Omega$  and  $5.2M\Omega$  to all exposed parts. (Fig. A) Equipment without antenna terminals should read approximately infinity to all exposed parts. (Fig. B)

Note: Some exposed parts may be isolated from the chassis by design. These will read infinity.



4. If the measurement is outside the specified limits, there is a possibility of a shock hazard. The equipment should be repaired and rechecked before it is returned to the customer.

#### Cassette Deck

# **RS-TR555**

# **DEUTSCH**

#### MESSUNGEN UND EINSTELL METHODEN

#### Meßinstrumente

- Elektronisches Voltmeter (EVM)
- Oszilloskop
- Digitaler Frequenzmesser
- Audiofrequenz-Oszillator

- Dämpfungswiderstand
- · Gleichstrom-Voltmeter
- Widerstand (600Ω)

#### Tonkopf-Azimuteinstellung

 Spielen Sie auf dem Testband (QZZCFM) den Teil für die Azimuteinstellung (8kHz, -20dB) ab. Drehen Sie die Azimuteinstellschraube so lange, bis die Abgaben des L-K und R-K den Höchstwert erreichen, und die Lissajosscghe wellenfigur sich, wie abgebildet, 0 Grad n\u00e4hert.

#### Anmerkung:

When L-K und R-K nicht auf demselben Punkt ihren Höchstwert erreichen, stellen Sie beide Kanäle auf den jeweiligen Höchstwert und gleichen dann aus.

 Nehmen Sie denselben Einstellvorgang in der Wiedergabestellung vor.

#### Prüfung des Pegelunterschiedes bei Vorwärtsund Rückwärtsdrehung

- Den Abschnitt für Verstärkungseinstellung (315 Hz, 0dB) des Prüfbandes (QZZCFM) wiedergeben und sicherstellen, daß der Pegelunterschied bei Vorwärtsund Rückwärtsdrehung kleiner als 1dB ist.
- Nach der Einstellung Schrauben-Sicherungsmittel an die Azimuth-Einstellschraube geben.

#### Bandgeschwindigkeits-einstellung

#### Normale Geschwindigkeit

- Den Wahlschalter für Editier-Bandgeschwindigkeit auf "x1" stellen.
- Den mittleren Teil des Prüfbandes (QZZCWAT) wiedergeben.
- 3. Deck 1 = VR902 und Deck 2=VR903 so einstellen, daß

#### Hohe Geschwindigketi

- Den Wahlschalter für Editier-Bandgeschwindigkeit auf "x2" stellen und den Prüfmoduspunkt und GND verbinden.
- Den mittleren Teil des Prüfbandes (QZZCWAT) wiedergeben.
- Deck 1 = VR901 so einstellen, daß der Ausgang dem Sollwert entspricht.

#### Einstellung der Wiedergabeverstärkungsregelung

- 1. Spielen Sie auf dem Testband (QZZCFM) den Teil für die Einstellung der Verstärkungsregelung (315 Hz, 0dB) ab.
- Stellen Sie VR3 (L-K) [VR4 (R-K)] für Deck 1 uon VR5 (L-K) [VR6 (R-K)] für Deck 2 so ein, daß die Abgabe den Normwert erfüllt.

#### Wiedergabefrequenzaang

- Spielen Sie auf dem Testband (QZZCFM) den Teil für den Frequenzgang (315 Hz, 12,5 kHz~63 Hz, -20 dB) ab.
- Achten Sie darauf, daß der Frequenzgang für beide Kanäle (L-K, R-K) in dem in Abb. 6 gezeigten Bereich liegt.

# **FRANÇAIS**

## METHODES DES MEASURES ET REGLAGES

#### Appareils de mesurage

- Voltmètre électronique
- Oscilloscope
- Compteur de fréquence numérique
- Oscillateur de fréquence audio

- A.T.T. (Atténuateur)
- · Voltmètre à C.C.
- Résistance (600Ω)

#### Reglage Azimutal de la tete

 Faire jouer la portion du réglage de l'azimuth (8kHz, -20dB) de la bande d'essai (QZZCFM). Ajuster la vis de la mise au point azimutale jusqu'à de que les sorties du canal de gauche et du canal de droite soient maximisées et que la forme d'onde de Lissajous, comme il est illustré, approche de 0 degré.

#### Nota:

- Si le canal de gauche et canal de droite ne sont pas maximisés au même point, régler le point où les niveaux de chaque canal sont maximiséset égaux.
- 2. Effectuer le même r&e 19 mglage sur le mode d'audition.

# Vérification de la différence de niveau pour les deux sens de rotation

- Introduire une bande métal vierge prévue pour les essais (QZZCPZ) et vérifier que la différence de niveau pour lés déux sens de rotation est inférieure à 1dB.
- 4. Après cela, mettre une goutte de vernis de blocage sur la vis de réglage de l'azimut.

#### Réglage de la vitesse de défilement Vitesse

#### normal

- Placer le sélecteur de vitesse d'édition sur la position "x1".
- 2. Lire la partie centrale de la bande d'essai (QZZCWAT).
- Régler VR902 pour la platine 1 et VR901 pour la platine 2 de manière que la sortie ait la valeur standard.

#### Grande vitesse

- Placer le sélecteur de vitesse d'édition sur la position "x2" et relier le point de test et la masse (GND).
- 5. Lire la partie centrale de la band d'essai (QZZCWAT).
- Régler VR901 pour la platine 1 de manière que la sortie ait la valeur standard.

#### Reglage de L'amplification de Lecture

- Faire jouer la partie réglée de l'amplification (315 Hz, 0 dB) de la bande d'essai (QZZCFM).
- Régler la platine 1: VR3 (canal de gauche) [VR4 (canal de droite)] et la platine 2: VR5 (canal de gauche) [VR6 (canal de droite)] de telle sorte que la sortie soit en deçà de la valeur standard.

## Reponse en Frequence de la Lecture

- Faier jouer la partie de la réponse en fréquence (315Hz, 12.5kHz, -63Hz, -20dB) de la bande d'essai (QZZCFM).
- S'assurer que la réponse en fréquence soit en deçà de la plage montrée dans la Fig. 6, à la fois pour le canal de gauche et le canal de droite.

#### Réglage du courant d'effacement

- Introduire une bande métal vierge prévue pour les essais (QZZCRZ) et régler l'appareil en mode de pause d'enregistrement.
- Régler VR351 pour la platine 1 et VR301 pour la platine 2 de manière que la sortie entre TP9 pour la platine 1 et TP3 pour la platine 2 et GND ait la valeur standard.

#### Reponse en Frequence Totale

- Introduire la bande d'essai vierge normale (QZZCRA) et régler l'appareil sur le mode d'intermission d'un disque.
- Appliquer un signal d'entrée de référence (1 kHz, -24 dB) par l'intermédiaire d'un atténuateur.
- Diminuer le signal de 20 dB et régler la fréquence de 50 Hz~10 kHz.
- 4. Enregistrer le balavage de fréquence.
- Faire jouer le signal enregistré et s'assurer qu'il soit en deçà de la plage montrée à la Fig. 8 en comparaison à la fréquence de référence (1 kHz).
- 6. S'II n'est pas en deçà de la plage standard, régler VR353 (canal de gauche) [VR352 (canal de droite)] pour la platine 1 et VR303 (canal de gauche) [VR302 (canal de droite)] pour la platine 2 de telle sorte que le niveau de fréquence soit en deçà de la plage standard.
- Répéter les étapes 2~6 ci-dessus en utilisant la band CrO<sub>2</sub> (QZZCRX) et la bande métallisée (QZZCRX) en augmentant la plage de fréquence à 12.5 kHz (50 Hz~12.5 kHz).
- S'assurer que le niveau soit en deçà de la plage montrée à la Fig. 9.

#### Réglage de L'amplification Totale

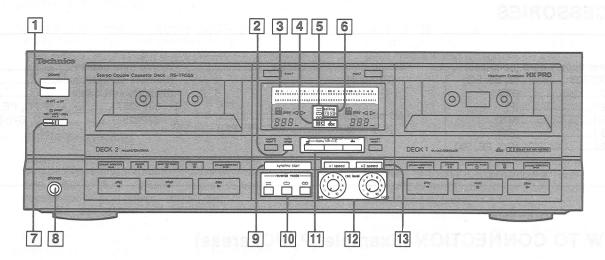
- Introduire la bande d'essai vierge normale (QZZCRA) et régler l'appareil sur le mode d'intermission d'un disque.
- Appliquer un signal d'entrée de référence (1kHz, -24dB). Diminuer la sortie de telle sorte que son niveau devienne de 0.4V.
- 3. Enregistrer ce signal d'entrée.

- Faire jouer le signal enregistré à l'étape 3 ci-dessus, et s'assurer que la sortie en decà de la valeur standard.
- Si elle n'est pas en deçà de la valeur standard, régler VR101 (canal de gauche) [VR102 (canal de droite)] pour la platine 1 et VR7 (canal de gauche) [VR8 (canal de droite)] pour la platine 2.
- Répéter les étapes 2~5 ci-dessus jusqu'à ce que la sortie soit en deçà de la valeur standard.

#### Réglage de la synohronisation dbx

- Placer l'interrupteur du réducteur de bruit sur la position dhx
- 2. Lire la partie de la bande d'essai (QZZCFM) qui contient l'enregistrement prévu pour le réglage du gain.
- 3. Brancher un voltmètre entre TP11 et TP12.
- Régler VR801 de manière que la sortie ait la valeur standard.

## **LOCATION OF CONTROLS**



#### Controls common to both decks

- 1 Power switch (power)
- 2 Meter-range selector (meter range)

  This selector is used to select the input level range shown on the display.
- During playback, this meter indicates the level of the recorded sound.

  During recording, it indicates the level being recorded, adjusted by the recording-level controls.
- A Noise-reduction indicators (B, C, dbx)

  Each indicator illuminates to show the type of noise-reduction system selected by pressing one of the noise-reduction buttons.
- **Series** Reverse-mode indicators ( , , , , , , , ) Each indicator illuminates to show which of the reverse modes was selected by the reverse-mode selectors.
- [6] Edit-recording tape-speed indicators (editing, x1, x2)

  The word "editing" and either the "x1" or "x2" indicator illuminate to show which of the tape-to-tape recording speeds was selected when pressing one of the edit-recording tape-speed buttons.
- 7 Timer switch ( timer)
  This switch is used to automatically begin a tape recording or tape playback at a certain time, selected by an optional timer.
- 8 Headphones jack (phones)

- 9 Synchro-start button (synchro start)
  This button is used to start a tape-to-tape recording, simultaneously starting tape deck 1 (the playback deck) and tape deck 2 (the recording deck).
- These selectors are used for selection of the reverse mode (for either playback or recording).
- 11 Noise-reduction buttons (noise reduction)
  These buttons are used to reduce the hiss noise heard from tape. This unit is provided with the Dolby B NR-type and C NR-type, and dbx noise-reduction systems.
- These controls are used to regulate the recording level of both tape decks.
- 13 Edit-recording tape-speed buttons (speed)
  These buttons are used to select the recording speed during edit-recording.

# **ESPAÑOL**

## **METODOS DE AJUSTE Y MEDIDA**

#### Instrumento de medición

- EVM (Voltimetro electrónico)
- Osciloscopio
- · Frecuencimetro digital
- · Oscilador AF

- ATT (Atenuador)
- Voltimetro CC
- Resistor (600Ω)

#### Aiuste Azimutal de Cabeza

 Reproducir la porción de ajuste azimutal (8kHz, -20dB) de la cinta de prueba (QZZCFM). Variar el tornillo de ajuste azimutal hasta que las salidas del CH-l y CH-D se maximicen y forma de onda de lissajous, como ilustrado, se acerque a grado 0.

#### Nota:

- Si CH-I y CH-D no son maximizados en el mismo punto, ajustar al punto donde los niveles de cada canal sean maximizados e igualados.
- Efectuar el mismo ajuste en la modalidad de reproducción.

# Comprobación de la diferencia de nivel de giro hacia adelante y hacia atrás

- Reproduzca la parte del adjuste de ganancia (315 Hz, 0dB) de la cinta de prueba (QZZCFM) y luego asegúrese de que la diferencia de nivel de giro hacia adelante y hacia atrás sea menor que 1dB.
- Dospués del ajusto, aplique pintura de fijación al tornillo de ajuste del azimut.

#### Aiuste de la Velocidad de la Cinta

#### Velocidad normal

- Lleve a "x1" el selector de la velocidad de la cinta de edición.
- Reproduzca la sección central de la cinta de prueba (QZZCWAT).
- Ajuste la platina 1 = VR902 y la platina 2 = VR903 de modo que la salida quede comprendida dentro de los valores estándares.

#### Alta velocidad

- Lleve a "x2" el selector de la velocidad de la cinta de edición y conecte GND y el punto de la modalidad de prueba.
- Reproduzca la sección central de la cinta de prueba (QZZCWAT).
- Ajuste la platina 1 = VR901 de modo que la salida quede comprendida dentro de los valores estándares.

#### Ajuste de Ganancia de Reproduccion

- Reproducir la porción ajustada de ganancia (315 Hz, 0 dB) de la cinta de prueba (QZZCFM).
- Ajustar la Platina 1: VR3 (CH-I) [VR4 (CH-D)] y la Platina 2: VR5 (CH-I) [VR6 (CH-D)] de manera que la salida esté dentro del valor estàndar.

#### Respuesta de Frecuencia de Reproduccion

- Reproducir la parte de respuesta de frecuencia de reproducción (315 Hz, 12.5 kHz~63 Hz, -20 dB) de la cinta de prueba (QZZCFM).
- Asegurarse de que la respuesta de frecuencia esté dentro de la gama mostrada en la Fig. 6 para ambos CH-I y CH-D.

#### Ajuste de la Corriente de Borrado

- Inserte la cinta de prueba metálica en blanco (QZZCRZ) y ponga el aparato en la modalidad de pausa de grabación.
- Regule la platina 1=VR351 y la platina 2=VR301 de modo que la salida entre la platina 1=TP9 y la platina 2=TP3 y GND esté dento de los valores estándares.

#### Respuesta de Frecuencia Total

- Poner una cinta virgen normal (QZZCRA) y poner la unidad en la modalidad de Pausa de Grabación.
- Aplicar la señal de entrada de referencia (1 kHz, -24 dB) a través de un atenuador.
- Atenuar la señal por 20dB y ajustar la frecuencia de 50Hz~10kHz.
- 4. Grabar el barrido de frecuencia.
- Reproducir la señal grabada y asegurarse de que esté dentro de la gama mostrada en la Fig. 8 en comparación con la frecuencia de referencia (1 kHz).
- Si no está dentro de la gama de frecuencia, ajustar la platina 1=VR353 (CH-I) [VR352 (CH-D)] y la platina 2=VR303 (CH-I) [VR302 (CH-D)] de manera que el nivel de frecuencia esté dentro de la gama estándar.
- Repetir los pasos 2~6 de arriba utilizando la cinta CrO<sub>2</sub> (QZZCRX) y la cinta metálica (QZZCRZ) incrementando la gama de frecuencia a 12.5 kHz (50 Hz~12.5 kHz).
- Asegurarse de que el nivel est&e 19mdentro de la gama mostrada en la Fig. 9.

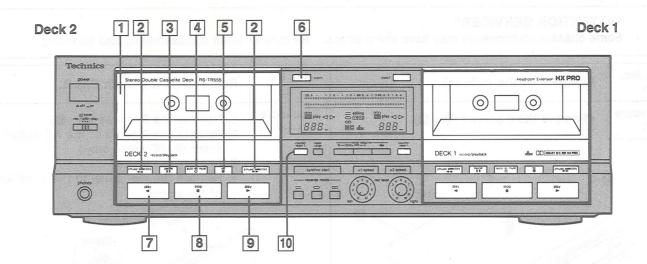
#### Ajuste de Ganancia Total

- Insertar la cinta de prueba en blance normal (QZZCRA) y poner la unidad en modalidad de pausa de Grabación.
- Aplicar la señal de entrada de referencia (1kHz, -24dB). Atenuar la salida de manera que su nivel se haga 0.4V.
- 3. Grabar la señal de entrada.

- Reproducir la señal grabada en el paso 3 de arriba y asegurarse de que la salide esté dentro del valor estándar.
- Si no está dentro del valor estándar, ajustar la platina 1=VR101 (CH-I) [VR102 (CH-D) y la platina 2=VR7 (CH-I) [VR8 (CH-D)].
- Repetir el paso 2~5 de arriba hasta que la salida esté dentro del valor estándar.

#### Aiuste de la Sincronizacion dbx

- Ponga el conmutador de reducción del ruido en la posición dbx.
- Reproduzca la parte del ajuste de ganancia (315 Hz, 0 dB) de la cinta de prueba (QZZCFM).
- 3. Conecte un voltimetro de CC cntre TP11 y TP12.
- Regule VR801 de modo que la salida esté entro de los valores estándares.



#### Controls applicable to deck 1 and 2

Both tape deck 1 and tape deck 2 have the same controls, indicators, etc., and have the same functions, so the following explanation, although for tape deck 2, is equally applicable to tape deck 1.

- 1 Cassette holder
- [ Rewind/fast-forward/search button [music selector ◄◄/▶▶]

These buttons are used to advance or rewind the tape, or to easily and quickly search for the tune's beginning of the tape.

3 Pause button (pause/II)

This button is used to temporarily stop the tape playback or recording of the deck.

4 Automatic-record-muting button (auto rec mute/

()

This button is used to make a silent interval on the tape while recording is in progress.

5 Record button (rec/
)

This button is used to set the deck to the recording stand-by mode.

6 Eject button (eject)

This button is used to open the cassette holder.

| Reverse-side playback button (play/ )

This button is used to start the playback or recording of side "B" of the cassette.

(The tape will move in the right-to-left direction.)

8 Stop button (stop/III)

This button is used to stop the tape movement.

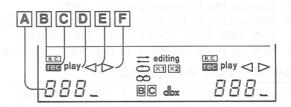
9 Forward-side playback button (play/▶)

This button is used to start the playback or recording of side "A" of the cassette.

(The tape will move in the left-to-right direction.)

Tape counter reset button (counter reset 1/2)
This button is used to reset the tape counter indication to "000".

Indicators applicable to deck 1 and 2



A Tape counter

Indicates the amount of tape movement.

B Remote-control indicator (R.C.)

Illuminates to indicate that this unit can now be controlled by the remote-control transmitter.

C Recording indicator (rec)

Illuminates to indicate that this unit is in the recording stand-by or recording mode.

D Playback indicator (play)

When this indicator illuminates steadily, it indicates that this unit is in the playback or recording mode. When flashing continually, indicates that this unit is in the pause mode or the recording stand-by mode.

E Reverse-side indicator (⊲)

Illuminates during playback or recording to indicate that side "B" of the tape is being used.

F Forward-side indicator (▷)

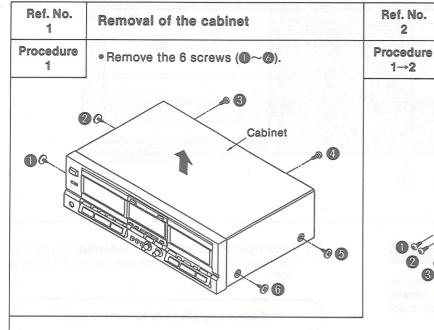
Illuminates during playback or recording to indicate that side "A" of the tape is being used.

#### **DISASSEMBLY INSTRUCTIONS**

#### "ATTENTION SERVICER"

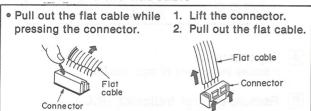
Some chassis components may have sharp edges. Be careful when disassembling and servicing.

1-2



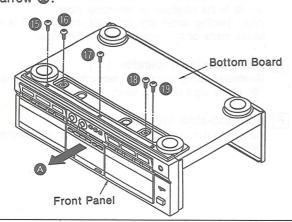
- 4. Remove the 6 screws (9~10).
- 5. Remove the 2 connectors (CP1, CP2).
- 6. Remove the 12 flat cables (CN3, CN4, CN5, CN6, CN7, CN8, CN9, CN10, CN13, CN14, CN17, CN18).
- 7. Remove the main P.C.B. in the direction of the arrow.

#### How to remove the flat cable



#### How to check the main P.C.B.

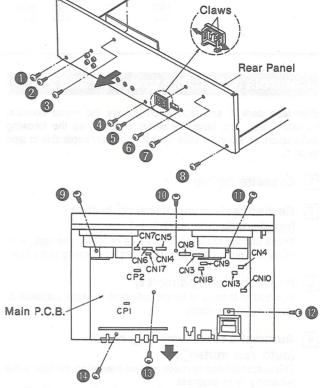
- When checking the soldered surfaces of main P.C.B. and replacing the parts, do as show.
- 1. Remove the 14 screws (1, 4, 3~1).
- 2. Remove the front panel in the direction of the arrow A.



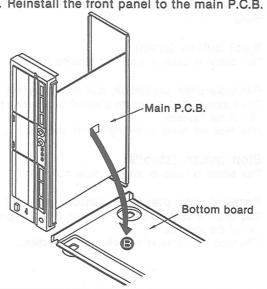
#### Ref. No. Removal of the main P.C.B. 2

- 1. Remove the 8 screws (1 ~3).
  - 2. Release the 2 claws of the AC outlet cover. (P, PC areas only.)
  - 3. Remove the angle.
- 4. Remove the rear panel in the direction of the arrow.

Angle



- 3. Remove the bottom board in the direction of the arrow B.
- 4. Reinstall the front panel to the main P.C.B.



## Ref. No. 2. Remove the 2 connectors (CP1, CP2). Removal of the front panel 3. Remove the 12 flat cables (CN3, CN4, CN5, CN6, CN7, CN8, CN9, CN10, CN13, CN14, CN17, CN18). Procedure 1. Remove the 5 screws ( ~ 6). 4. Remove the front panel in the direction of the 1→3 arrow. CPI CNIO CN4 CN8 CN5 CN7 Front Panel Ref. No. Ref. No. Removal of the mechanism units Removal of the LED meter P.C.B. 5 Procedure Procedure 1. Remove the 3 screws ( )-(3). Mechanism unit (DECK 2) 1→3→5 1→3→4 1. Push the eject button. 2. Remove the meter P.C.B. in the direction 2. Remove the 4 screws ( ~4). of the arrow. Mechanism unit (DECK 1) 1. Push the eject button. LED Meter P.C.B. 2. Remove the 4 screws (5~8). **Eject Button** (DECK 2) **6 Èject Button** (DECK 1) Ref. No. Removal of the front panel Procedure 1. Remove the 3 screws ( $\bigcirc \sim \bigcirc$ ). 1→3→6 2. Release the 4 claws. Mechanism Unit (DECK 2) Front Panel Mechanism Unit (DECK 1) 46 **8**

# Ref. No. Removal of the power switch P.C.B., timer switch P.C.B. and headphones P.C.B. Power switch P.C.B. Procedure • Removal of the power switch P.C.B. 1→3→7 1. Remove the 2 screws (1), (2). Removal of the timer switch P.C.B. 1. Remove the 1 screw (3). • Removal of the headphones P.C.B. 1. Release the 1 claw. Timer Switch P.C.B. Headphones P.C.B. Ref. No. Ref. No. Removal of the operation (DECK 1) Removal of the mechanism angle 8 P.C.B. Procedure Procedure • Remove the 4 screws ( ~4). 1. Remove the 2 screws (1), 2). 5→8 5→8→9 2. Release the 5 claws Operation (DECK 1) P.C.B. Claws **©**2 Mechanism Angle O A Ref. No. Removal of the operation (DECK 2) 10 P.C.B. 2. Remove the 5 screws (1 ~ 5). 3. Release the 8 claws. Procedure 1. Remove the rec level 2 knobs. 5→8→10 Operation (DECK 2 P.C.B. Claws 02 Rec Level Knob Claws

Eject Lever

Removal of the eject angle, eject Ref. No. buttons, and eject lever 11 Procedure Front Grille 3→4→5→11 **Eject Button** (DECK 2) Eiect Angle Eject Button (DECK 1) Screwdriver 3. Pull out the eject buttons in 4. Turn the eject lever in the 1. Remove the 1 screw (1). the direction of the arrow . direction of the arrow . 2. Lift the front grille slightly using a and remove the eject lever screw driver etc. in the direction in the direction of the of the arrow (A), and take out the arrow 🖨. eject angle in the direction of the arrow B. Removal of the cassette holder Ref. No. 12 (DECK 1 & DECK 2) 3. Remove the rib in the direction of the arrow. 4. Remove the cassette holder in the direction of Procedure 1. Remove the 2 screws (1), (2). the arrow. 5→8→12 2. Remove the damper gear. Cassette Holder (DECK 2) Cassette Holder (DECK 1) Damper Gear (DECK 2)

Ref. No. 13

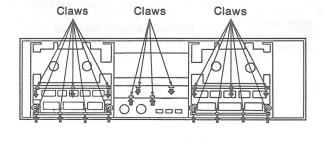
#### Removal of the operation buttons ornament and edit button ornament

Damper Gear (DECK 1)

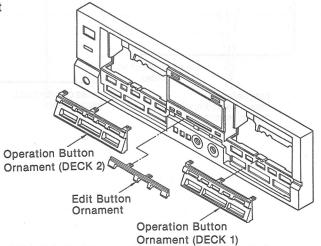
Procedure 9→10→ 12→13

A. Removal of the operation button ornament (DECK 1, DECK 2).

1. Release the 14 claws.



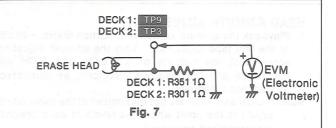
- B. Removal of the edit button ornament.
- 1. Release the 4 claws.



#### **ERASE CURRENT ADJUSTMENT**

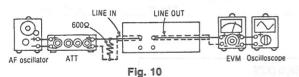
- Insert the metal blank test tape (QZZCRZ) and set the unit to the record pause mode.
- Adjust Deck 1=VR351 and Deck 2=VR302 so that the output between Deck 1=TP9 and Deck 2=TP3 and GND is within the standard value.

Standard value: 200 ±5 mA (Metal)...EVM Reading: 200 ±5 mV



#### OVERALL FREQUENCY RESPONSE

- Insert the normal blank test tape (QZZCRA) and set the unit to the record pause mode.
- Apply a reference input signal (1 kHz, -24 dB) through an attenuator.
- Attenuate the signal by 20dB and adjust the frequency from 50Hz~10kHz.
- 4. Record the frequency sweep.
- Playback the recorded signal and assure that it is within the range shown in Fig. 8 in comparison to the reference frequency (1kHz).
- If it is not within the standard range, adjust Deck 1=VR353 (L-CH) VR352 (R-CH) and Deck 2=VR303 (L-CH) [VR302 (R-CH)] so that the frequency level is within the standard range.
  - Level up in high frequency range .......Increase the bias current.
- Level down in high frequency range ... Decrease the bias current.
- 7. Repeat steps  $2\sim6$  above using the CrO<sub>2</sub> tape (QZZCRX) and the metal tape (QZZCRZ) increasing the frequency range to  $12.5\,\text{kHz}$  (50 Hz $\sim12.5\,\text{kHz}$ ).
- 8. Assure that the level is within the range shown in Fig. 9.



#### Normal Overall frequency response chart (NR OUT)

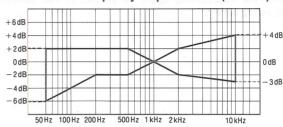


Fig. 8

#### CrO<sub>2</sub> Metal Overall frequency response chart (NR OUT)

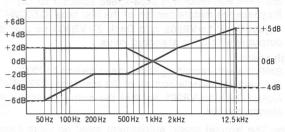
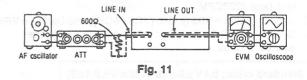


Fig. 9

#### **OVERALL GAIN ADJUSTMENT**

- Insert the normal blank test tape (QZZCRA) and set the unit to the record pause mode.
- Apply a reference input signal (1kHz, -24dB). Attenuate the output so that its level becomes 0.4V.
- 3. Record this input signal.
- Playback the signal recorded in step 3 above, and assure that the output is within the standard value.
- If it is not within the standard value, adjust Deck 1=VR101 (L-CH) [VR102 (R-CH)] and Deck 2=VR7 (L-CH) [VR8 (R-CH)].
- 6. Repeat the step  $2{\sim}5$  above until the output is within the standard value.

Standard value: 0.4V±0.5dB



#### dbx TIMING ADJUSTMENT

- 1. Shift the noise reduction switch to the dbx position.
- Playback the gain adjustment portion (315 Hz, 0 dB) of the test tape (QZZCFM).
- 3. Connect a DC voltmeter across TP11 and TP12.
- Adjust VR801 so that the output is within the standard value.

Standard value: DC 18.4 mV ± 0.5 mV

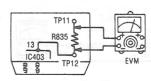


Fig. 12

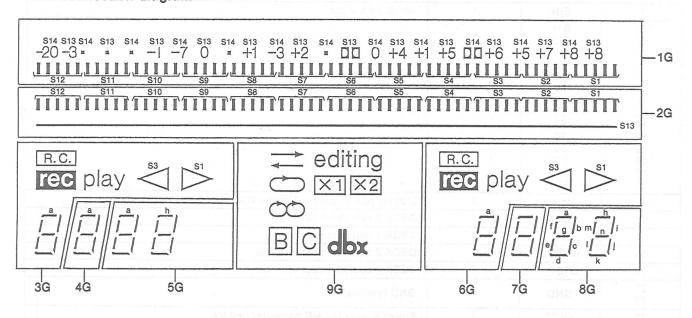
# **TERMINAL FUNCTION OF IC's**

• IC901 (M50746-147SP): MICROCOMPUTER (This microcomputer is used for mechanical operation)

Pin No.	Mark	I/O Division	Function
1	V <sub>cc</sub>		Power supply terminal
2	AV <sub>SS</sub>	<u> </u>	Connected to V <sub>ss</sub>
3	V <sub>REF</sub>	1	Standard voltage terminal (5 V)
4	CAPM 1	0	Deck 1 capstan motor ON/OFF control signal  "L" level in capstan motor is off mode.  "H" level in capstan motor is on mode.
5	CAPM 2	0	Deck 2 capstan motor ON/OFF control signal  "L" level in capstan motor is off mode.  "H" level in capstan motor is on mode.
6	RP 2	0	Deck 2 reel pulse signal
7	RP 1	0	Deck 1 reel pulse signal
8	HISP 2	0	Deck 2 capstan motor speed control  • "L" level when normal speed (X1).  • "H" level when high speed (X2).
9	HISP 1	0	Deck 1 capstan motor speed control  • "L" level when normal speed (X1).  • "H" level when high speed (X2).
10	QREV 2	1	Deck 2 quick detector signal
11	KEY 2		Key switch scan (DECK 2: STOP, F.F., REW, F. PLAY, R. PLAY, REC., PAUSE, S. START, X2, X1, DOLBY C, B, dbx)
12	KEY 1		Key switch scan (DECK 1: STOP, F.F., REW, F. PLAY, R. PLAY, REC., PAUSE, M. RANGE, ➡, ➡, ♠)
13	QREV 1		Deck 1 quick detector signal
14	TREC		Timer rec terminal
15	TPLAY	Lisbon	Timer play terminal
16	RINH 2	1	Deck 2 reverse rec. Inh. switch select terminal
17	FINH 2	t - Olydice to	Deck 2 forward rec. Inh. switch select terminal
18	REEL 2	I	Deck 2 rotation pulse signal of reel table
19	ARM 2	. 1	Deck 2 auto rec. mute terminal. "L"=KEY ON, "H"=KEY OFF
20	RENA	0	B side select signal to CD player, used during CD synchro editing mode.
21	RMT 1	0 1014	Rec. amp. mute signal of deck 1  • "L" level in mute is on mode.  • "H" level in mute is off mode.
22	RMT 2		Rec. amp. mute signal of deck 2  • "L" level in mute is off mode.  • "H" level in mute is on mode.
23	DMT	isage opgo	Line out mute signal  • "L" level in muting is off mode.  • "H" level in muting is on mode.
24	BIAS 1	Lang O organ	Deck 1 bias OSC ON/OFF control signal  "L" level in bias OSC is on mode.  "H" level in bias OSC is off mode.
25	BIAS 2	0	Deck 2 bias OSC ON/OFF control signal  • "L" level in bias OSC is on mode.  • "H" level in bias OSC is off mode.
26	POF	I	Primary AC power detection terminal
27	CNV <sub>ss</sub>	segle <del>lo</del> mnoo r	Connected to GND
28	RESET	ilgnai signat	Reset terminal  • "L" level when reset is on mode.  • "L" → "H" level when reset is off mode.
29	XIN	langia	62 PSOLH 2 O . Denk 2 brake enfanolg confrot
30	XOUT	0.15001	Clock OSC terminal
31	ф	_langle	Not used, open.
32	V <sub>SS</sub>		Connected to GND
33	TEST	1	Test terminal

# INTERNAL CONNECTION OF FL

#### Grid connection diagram

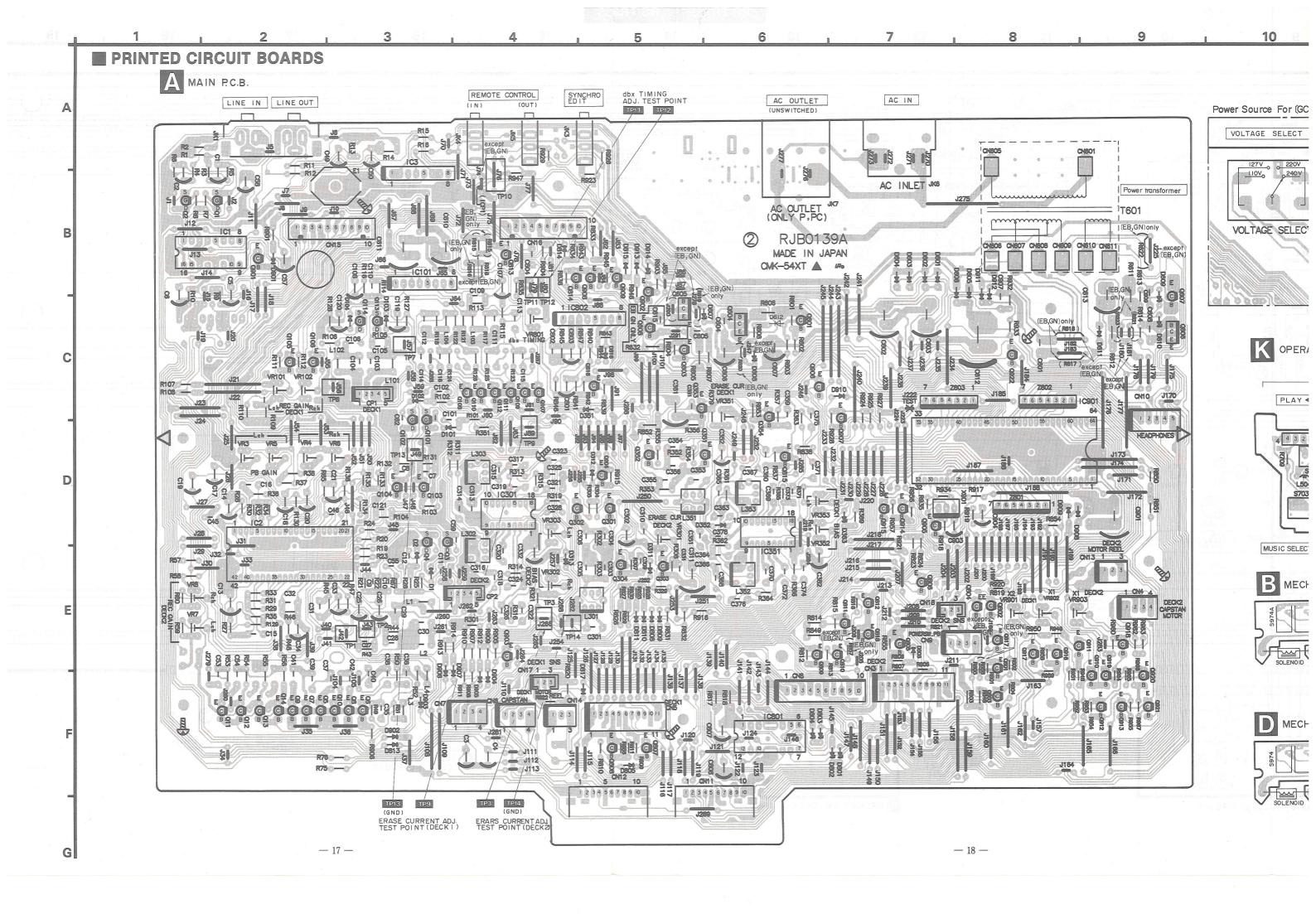


#### Anode connection table

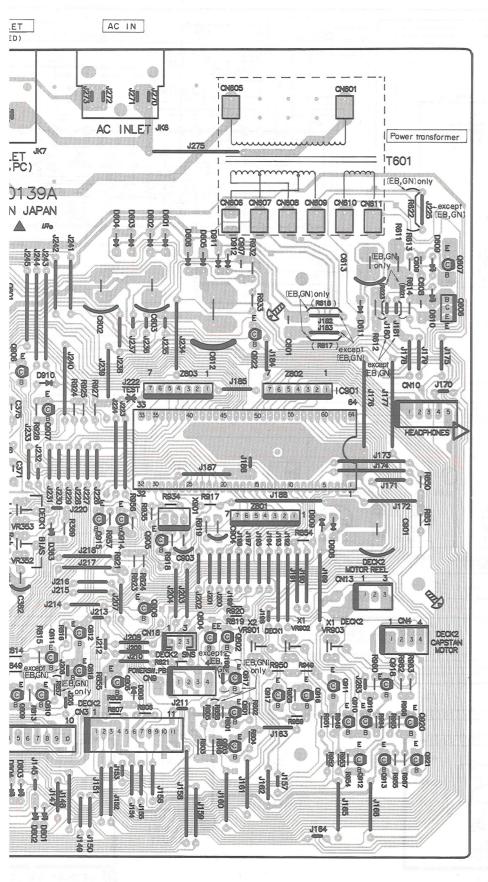
	9G	8G	7G	6G	5G	4G	3G	2G	1G
S1	のの	n	_		n	Jabr -		IIIII	11111
S2		j	-	play	j 30		play		11111
S3	<b>→</b>	e	-		e e	ewee -		IIIII	11111
S4	editing	k	-	R.C.	k	7 - F	R.C.	11111	
S5	-	h		rec	h	-	rec	11111	
S6	×2	a	a	a	a	a	a	11111	IIIII
S7	×1	b	b	b	b	b	b	11111	11111
S8	-	f	f	f	f	f	f	11111	IIIII
S9	В	g	g	g	g	g	g	11111	11411
S10	C	c	С	С	С	С	С	IIIII	
S11	dbx	е	е	е	е	е	е	11111	
S12	-	d	d	d	d	d	d	IIIII	
S13		i	-	-	i	-			S13
S14	-	m	-	-	m		-	-	S14

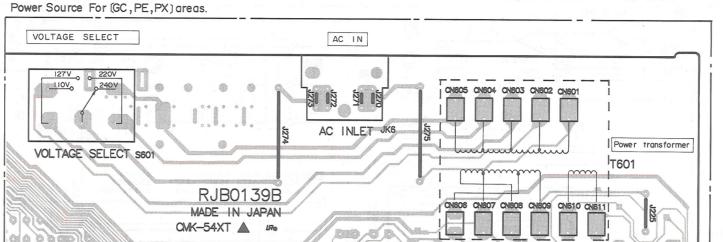
#### Pin connection

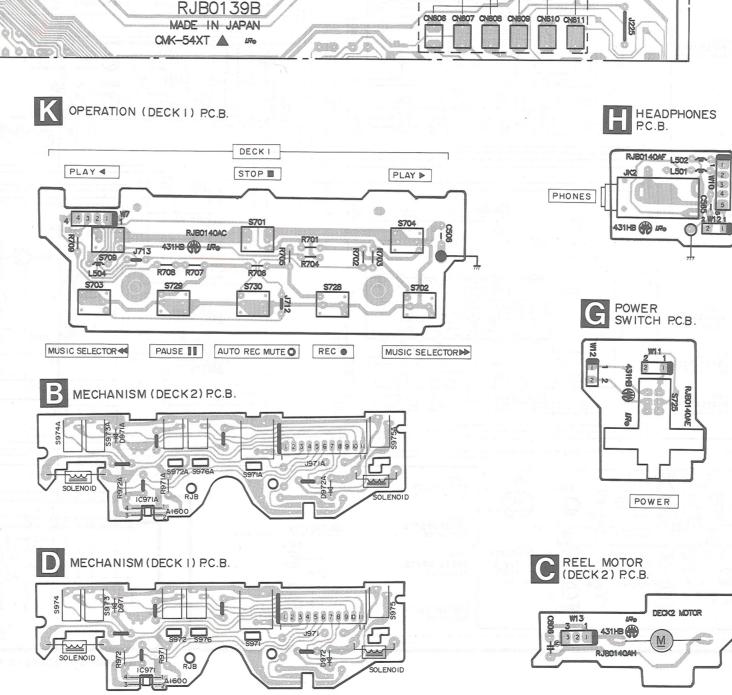
PIN NO.	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
CONNECTION	F 2	F 2	N P	N P	N P	S 12	S 11	S 10	S 9	S 8	S 7	S 6	S 5	S 4	S 3	S 2	S 1	N P	S 14	S 13	N P	9 G	8 G	7 G	6 G	5 G	4 G	3 G	2 G	1 G	N P	N P	N P	F 1	F 1

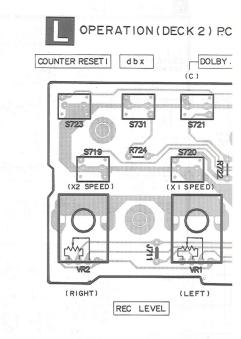


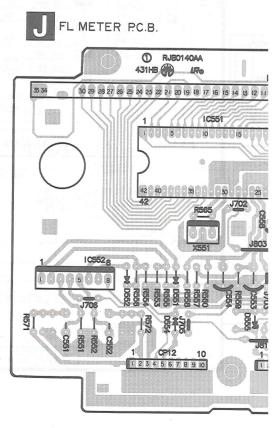












15 16 18 20 21 12 13 14 19 OPERATION (DECK 2) P.C.B. METER RANGE COUNTER RESET 2 COUNTER RESET I dbx DOLBY . NR AC IN DECK 2 REC • AUTO REC MUTE PAUSE MUSIC SELECTOR≪ MUSIC SELECTOR ▶ AC INLET JK6 (XI SPEED) (X2 SPEED 8717 R718 S711 R716 R719 Power transformer IT601 R713 CNS06 CNS07 CNS08 CNS00 CNS10 CNS11 ① RJB0140AB W8 1 2 3 4 5 6 7 8 9 1 (RIGHT) (LEFT)  $(\infty)$ (()) ( - ) PLAY ▶ STOP PLAY ◀ REC LEVEL REVERSE MODE HEADPHONES P.C.B. TIMER SWITCH P.C.B. E REEL MOTOR (DECK I ) P.C.B. RJB0140AF L502 400 PLAY ▶ PHONES 431HB (#) #% 2 | TIMER J FL METER P.C.B. POWER SWITCH P.C.B. ① RJB0140AA dbx / DOLBY NR P.C.B. 431HB MUTE **○** REC **○** MUSIC SELECTOR▶▶ FL551 30 29 28 27 26 25 24 25 22 21 20 19 18 17 16 15 14 15 12 11 10 9 8 7 6 RJB0141A MADE IN JAPAN POWER C425 REEL MOTOR (DECK 2) P.C.B. DECK2 MOTOR 1234567890 LRo 431HB QP12 1 CP11 10 J971 12345678910

-20 -

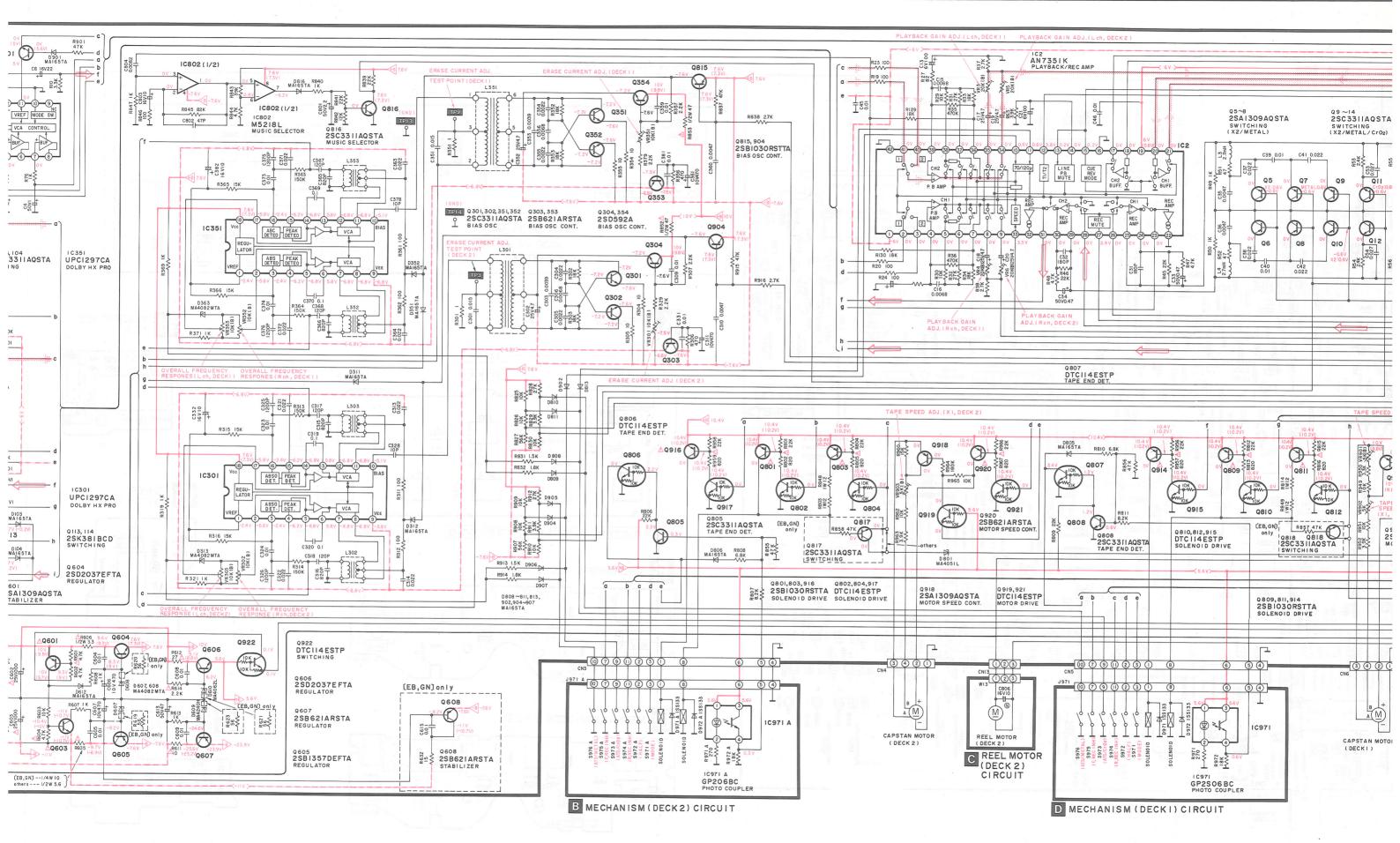
SCHEMATIC DIAGRAM (Parts list on pages 37~43.) (This schematic diagram may be modified at any time with A MAIN CIRCUIT development of new technology.) Q901 2SC3311AQSTA SWITCHING (LEVEL CONT.) : Voltage selector switch in "240 V" position. o S601 D901 MAI65TA 2SJ164PQRTA AN7384 ELECTRIC VOLUME (110V←127V←220V←240V) ((GC, PE, PX) areas only) • S701 : DECK 1 Stop switch in "off" position. : DECK 1 F.F. (music selector) switch in "off" o S702 R846 C803 position. o S703 : DECK 1 Rew. (music selector) switch in "off" position. Q2 : DECK 1 For. Playback switch in "off" position. LINE IN • S704 (1) : Reverse mode selector switch ( ) in "off" o S705 • S706 : Reverse mode selector switch ( ) in "off" R4 C2 39K 50V position. Q101, 102 2SJ164 PQRTA EB,GN) • S707 : Reverse mode selector switch ( c) in "off" 0101 DECK I o S708 : DECK 2 Auto rec. mute switch in "off" position. • S709 : DECK 1 Rev. Playback switch in "off" position. -L ch 0103 : Meter-range selector switch in "off" position. o S710 R/P HEAD  $\bigcirc$ : DECK 2 Stop switch in "off" position. • S711 UPC1297CA DOLBY HX PRO 0103,104 2SC3311AQSTA o S712 : DECK 2 F.F. (music selector) switch in "off" C102 1000P position. Q104 RIO2 2.2M 2.2M : DECK 2 Rew. (music selector) switch in "off" • S713 ERASE X 0.2V 61.9V) G position. \$35 \$35 • S714 : DECK 2 For. Playback switch in "off" position. : DECK 2 Rev. Playback switch in "off" position. • S715 Q102 RI04 10K • S716 : DECK 2 Record switch in "off" position. : DECK 2 Pause switch in "off" position. o S717 DECK 2 • S718 : Synchro-start switch in "off" position. ⊢ L ch ← • S719 : Editing tape-speed selector (X2) in "off" R/P HEAD Q3,4 2SJ164PQRTA SWITCHING (PLAY:ON) position. R ch : Editing tape-speed selector (X1) in "off" • S720 position. : Dolby C NR switch in "off" position. • S721 : Dolby B NR switch in "off" position. • S722 ERASE X o S723 : Tape counter reset 1 switch in "off" position. : Tape counter reset 2 switch in "off" position. • S724 Q4 • S725 : Power switch in "on" position. TP2 C28 560P C55\_0.01 : Timer switch in "off" position. ∘ S726 R44 IOK • S728 : DECK 1 Record switch in "off" position. For (GC,PE,PX) areas. L1 30mH C29 100P TP1 C27 560F UPC1297CA • S729 : DECK 1 Pause switch in "off" position. R43 IOK : DECK 1 Auto rec. mute switch in "off" position. • S730 C105 560P S MA165TA
R105 IOK OV -5.7VI-0.2VI L101 30mH : dbx Noise-reduction switch in "off" position. S731 RIO5 IOK • S971, S971A: DECK 1, 2 Mode switch in "off" position. Q113 TILOV CN602 L102 30mH C106 560P 2SK38IBCD SWITCHING • S972, S972A: DECK 1, 2 Cassette half detection switch in 127V CN603 ACIN "off" position. 1220V CN604 o S973, S973A: DECK 1, 2 Rev. Rec Inhibit switch in "off" Q604 2SD2037EFTA 1240V CN605 position. Q603 2SC33IIAQSTA 2SAI3O9AQSTA • S974, S974A: DECK 1, 2 For. Rec Inhibit switch in "off" position. (P, PC) only D601~606, 611 • S975, S975A: DECK 1, 2 ATS (CrO2) switch in "off" position. • S976, S976A: DECK 1, 2 ATS (Metal) switch in "off" position. AC OUTLET (EB, GN) on ly  $\circ$  Resistance are in ohms ( $\Omega$ ), 1/4 watt unless specified otherwise. AR606 1/2W 3.3 R617 0.15 R618 0.15  $1 K = 1,000 (\Omega), 1 M = 1,000 k (\Omega)$ • Capacity are in micro-farads (µF) unless specified otherwise. • All voltage values shown in circuitry are under no signal condition and playback mode with volume control at minimum position otherwise specified. )......Voltage values at record mode. For measurement us EVM. Important safety notice Q605 Components identified by A mark have special characteristics important for safety. When replacing any of these AR 622 0.15 (EB,GN) (EB,GN) --1/4W10 others --- 1/2W 5.6 components, use only manufacturer's specified parts. ----< +B> ---- ) indicates +B (bias). • ( ---- - ) indicates - B (bias). • ( ) indicates the flow of the playback signal. • ( ) indicates the flow of the record signal. G

10802 (1/2) Q816 10802 (1/2) TP9 10802 M5218L Q816 2SC3311AQSTA R365 I5 TP14 Q30I, 0 2SC: BIAS IC351 TP3 MAI65TA R315 15k 1030 C318 120P Q922 Q922 DTC114ESTP SWITCHING Q606 2SD2037EFTA (EB,GN) only 0608 2SB62IARSTA (3) Q608 2SB62IAR: STABILIZER Q605 2SBI357DEFTA

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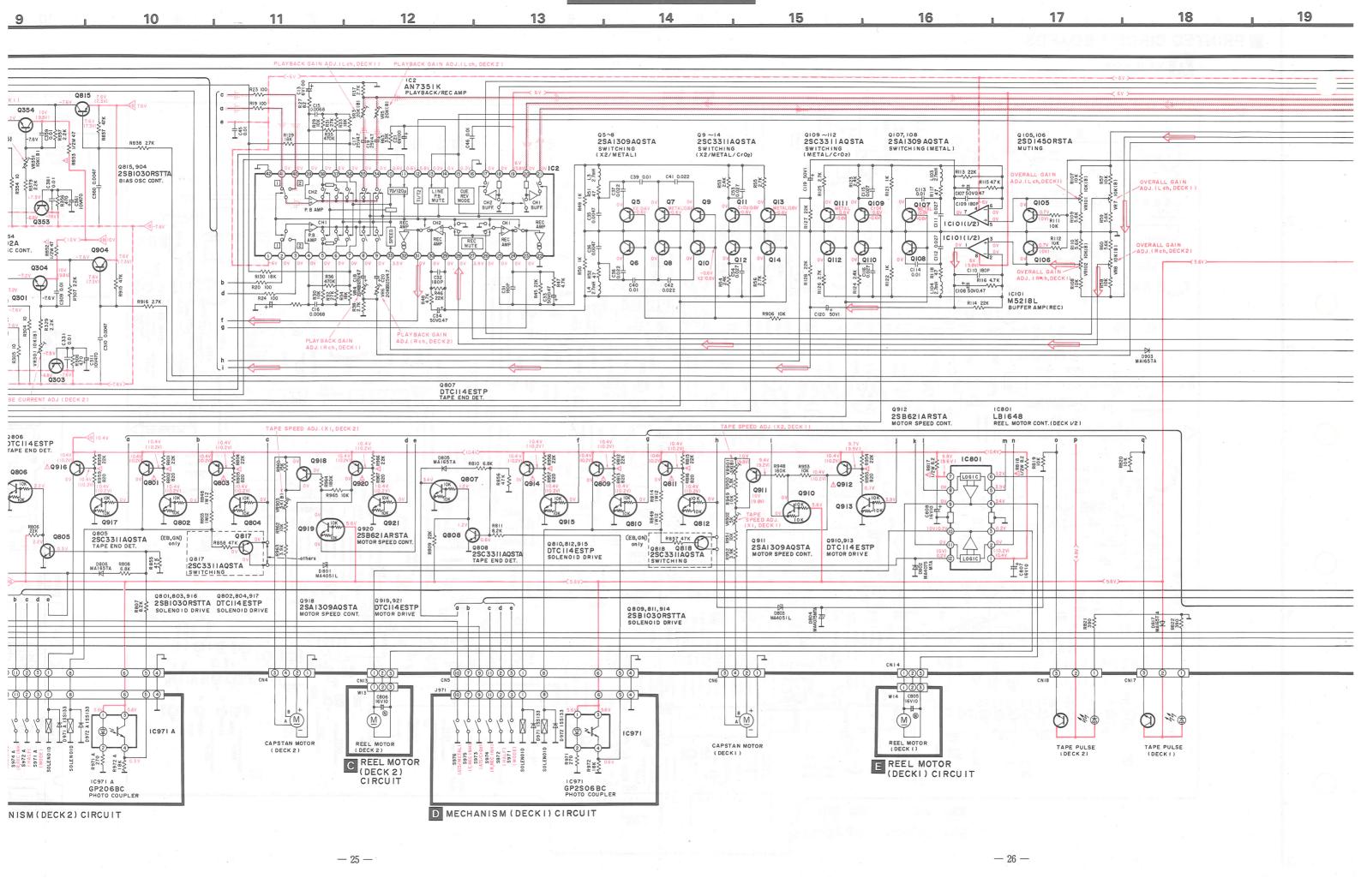
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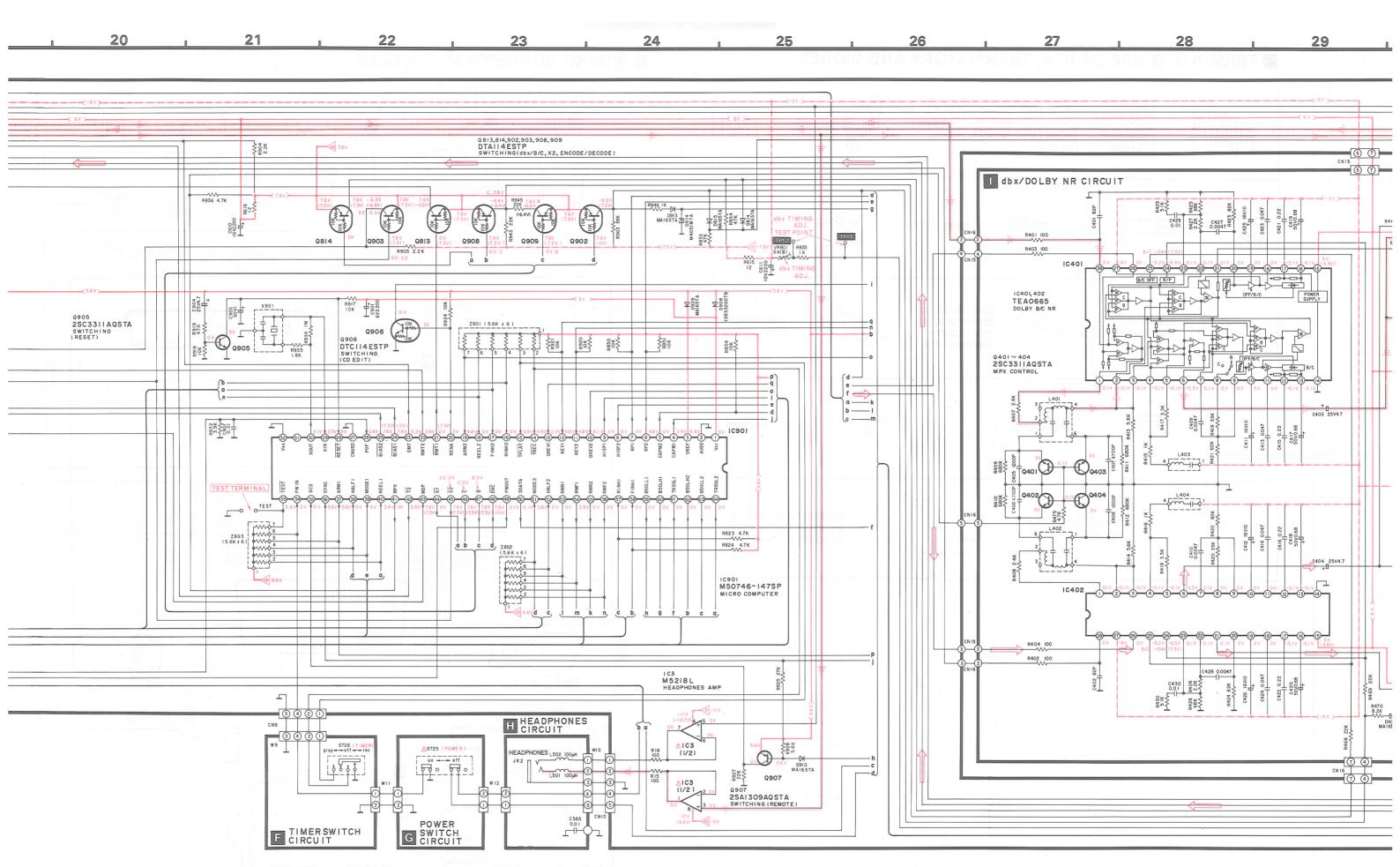


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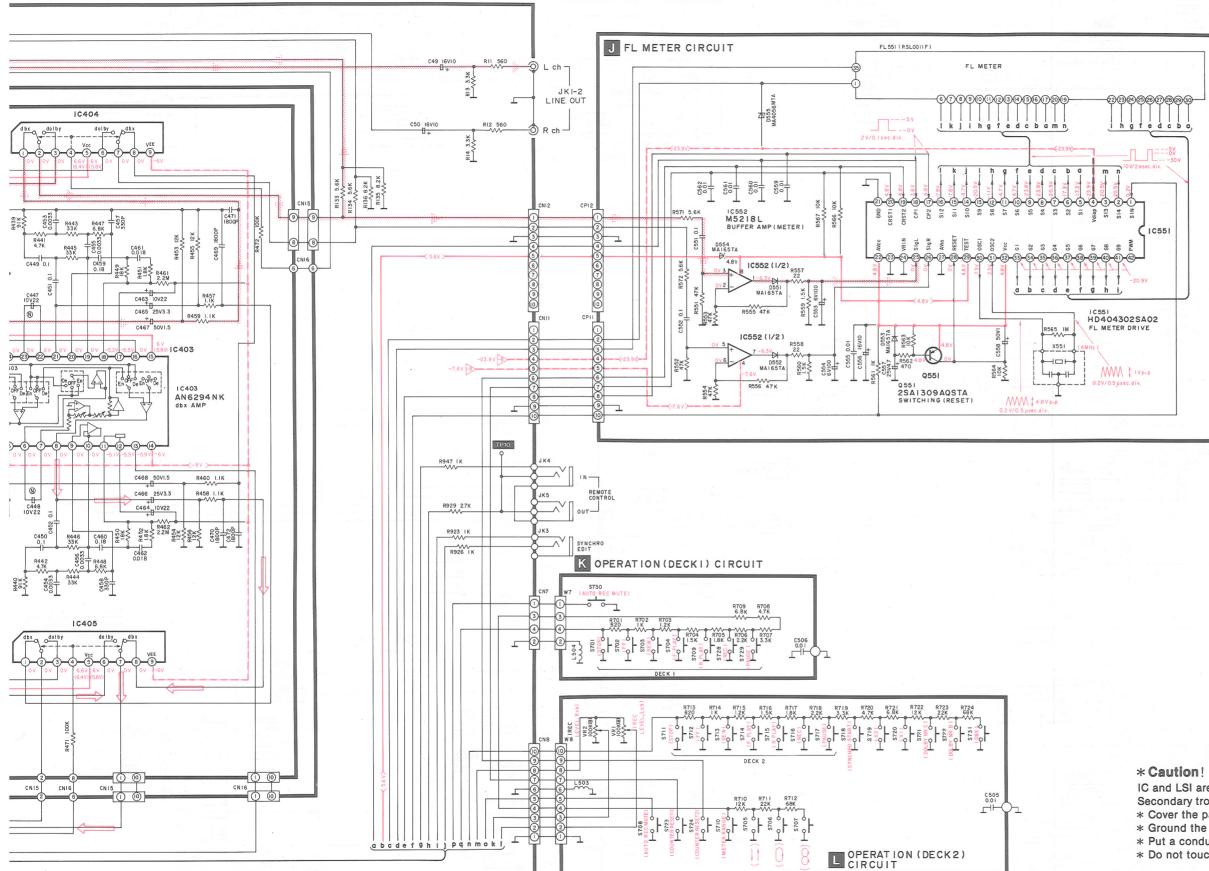
8





33 35 36 31 32 34 28 29 30 J FL METER CIRCUIT FL 551 (RSL0011F) R13 3.3K **5** 7 JKI-2 LINE OUT 10404 | dbx/DOLBY NR CIRCUIT MN 6634 NR SELECTOR (PLAYBACK) 25 K 4425 K 4428 R14 3.3K R403 I00 10401 1C552 M5218L BUFFER AMP (MFTFR) VRIN Sigl Sigr Avss 10401,402 TEA0665 DOLBY B/C NR IC552 (1/2) C465 25V3.3 +D C467 50V1.5 Q401~404 2SC3311AQSTA 10552 (1/2) 10403 of 1C403 Q551 Q551 2SA1309AQST SWITCHING (RESE 1C403 AN6294NK dbx AMP 8554 47⊀ ✓ TP10 R947 I K C468 50VI.5 © C448 IOV22 C466 25V3.3 R458 I.IK C464\_IOV22 R929 2.7K R926 1 K 8444 8444 8444 8444 847 K OPERATION (DECKI) CIRCUIT 330P 10402 R709 R708 6.8 K 4.7 K 10405 IC405 MN6634 NR SELECTOR (REC) R402 100 C474 50VI R470 8.2K MA 165TA\$ 950 CN16 0 CN15 1 10 CN15 CN15 CN16 OPERATION (DECK2)
CIRCUIT

37 35 36 38 39 34 40 31 32 33

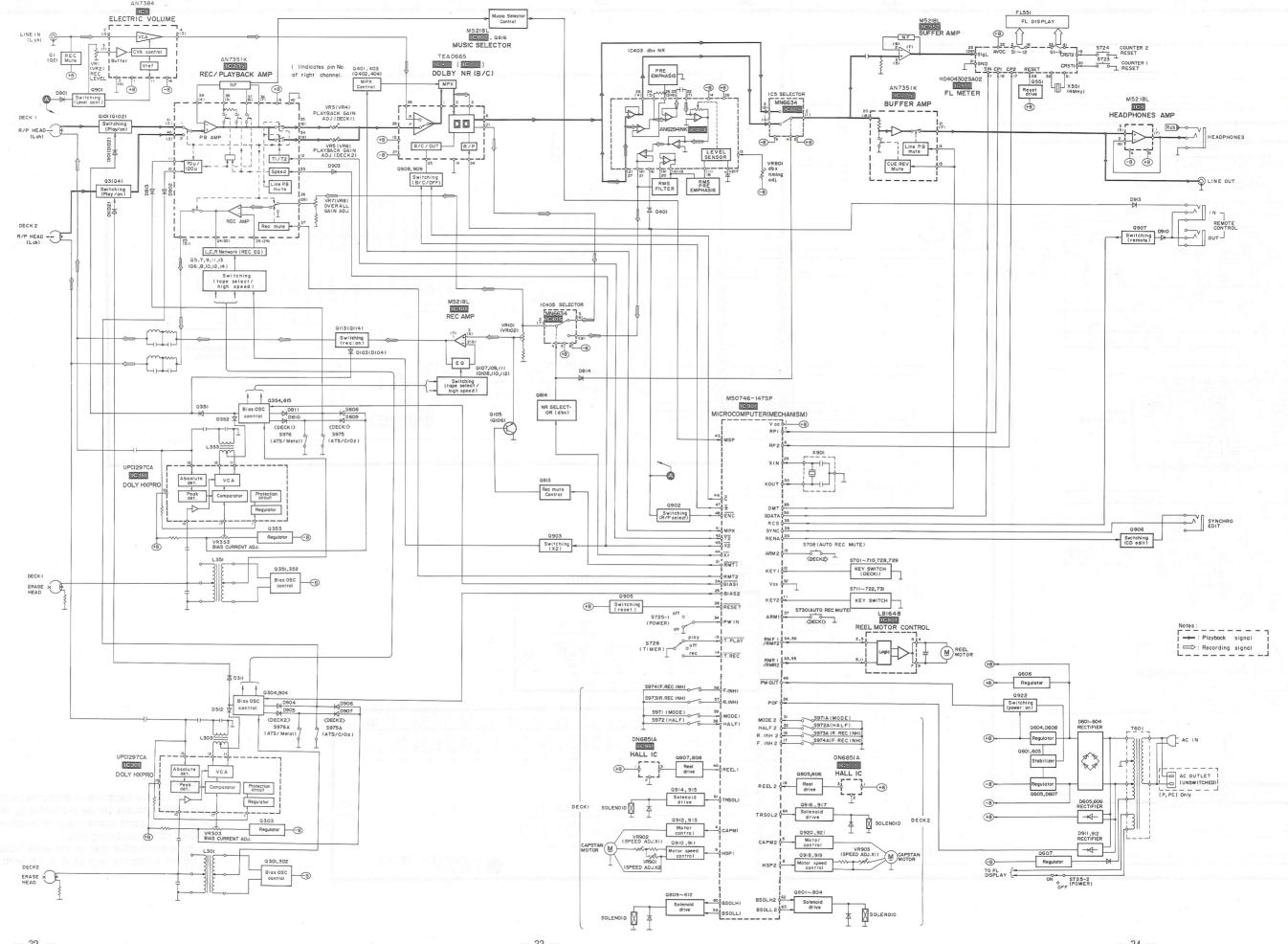


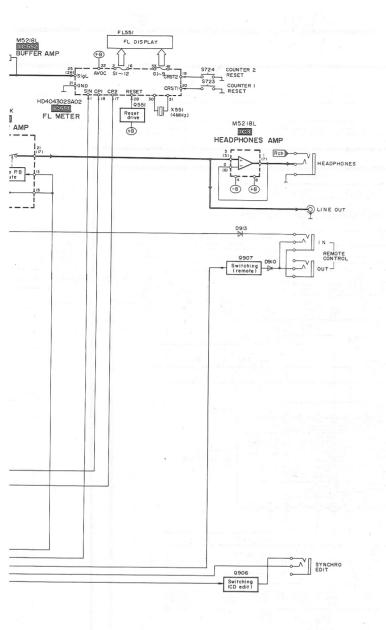
IC and LSI are sensitive to static electricity.

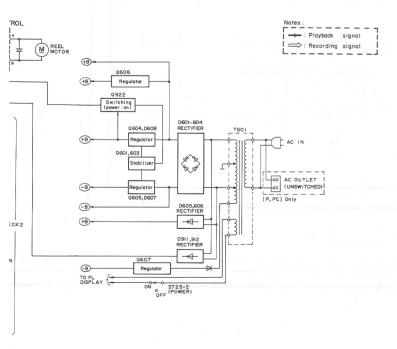
Secondary trouble can be prevented by taking care during repair.

- \* Cover the parts boxes made of plastics with aluminum foil.
- \* Ground the soldering iron.
- \* Put a conductive mat on the work table.
- \* Do not touch the legs of IC or LSI with the fingers directly.

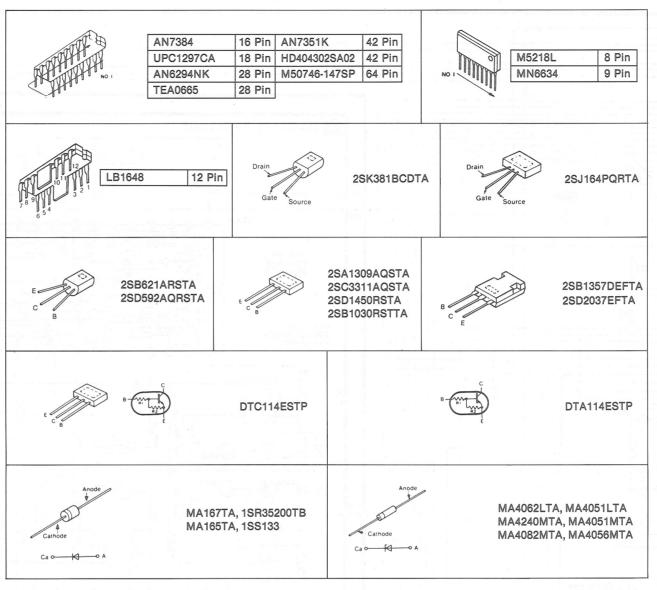
# **BLOCK DIAGRAM**



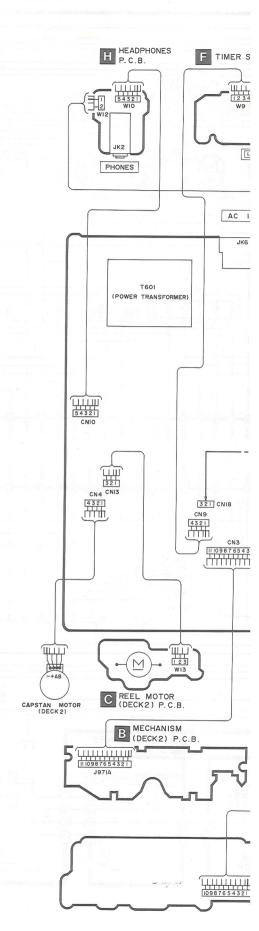




# ■ TERMINAL GUIDE OF IC'S, TRANSISTORS AND DIODES



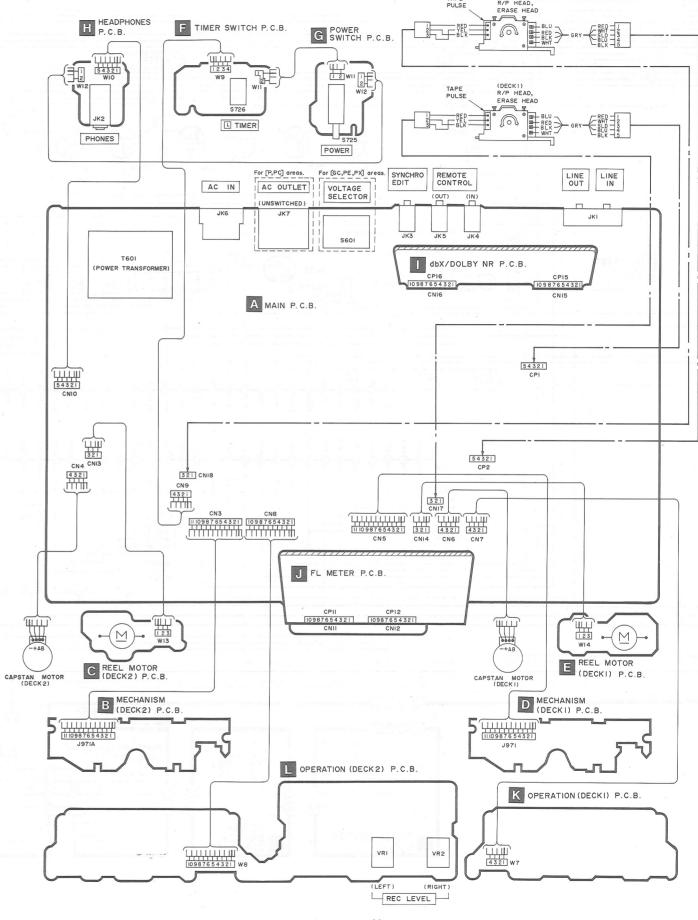
# WIRING CONNECTION



# TERMINAL GUIDE OF IC'S, TRANSISTORS AND DIODES

A THE STATE OF THE	AN7384 UPC1297CA AN6294NK TEA0665		1K 42 Pin 802SA02 42 Pin 6-147SP 64 Pin		5218L 8 Pin N6634 9 Pin
LB164	12 Pin	Drain Gate Source	2SK381BCD	TA Drain Gate Source	2SJ164PQRTA
	B621ARSTA D592AQRSTA		2SA1309AQSTA 2SC3311AQSTA 2SD1450RSTA 2SB1030RSTTA	B C E	2SB1357DEFT/ 2SD2037EFTA
E C B	Ç.	DTC114ESTP		B C C	DTA114ESTP
Anode Gathode Ca O A		ΓΑ, 1SR35200TB ΓΑ, 1SS133	Anoce Cathode	MA40 MA42 MA40	062LTA, MA4051LTA 240MTA, MA4051MTA 082MTA, MA4056MTA

# **WIRING CONNECTION DIAGRAM**



# **RESISTORS & CAPACITORS**

Notes : \* Important safety notice:

Components identified by A mark have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.

\* Parenthesis indications in Remarks columns specify the area. (Refer to the first page for area.)

Parts without these indications can be used for all areas.

Ref. No.	Part No.	Part Name & Description			Remarks	Ref. No.	Part No.	Part Name	Remarks		
		2. 684	in the same		KUTS ALIAN 8.10	R135, 136	ERDS2TJ822	C. RESISTOR	1/4W	8. 2K	OLLTSPINE STR
		RESISTORS		04.0)		R301	ERDS2TJ1R0T	C. RESISTOR	1/4W	1.0	TALFORDSET TO -8
		WELL WELL		en di	era adi 💮 ya	R302, 303	ERDS2TJ183T	C. RESISTOR	1/4₩	18K	VALTERI V
21, 2	ERDS2TJ394T	C. RESISTOR	1/4W	390K	12 V	R304, 305	ERDS2TJ100T	C. RESISTOR	1/4W	10	egityen e
3, 4	ERDS2TJ393T	C. RESISTOR	1/4W	39K	J. T. 2850	R306	ERDS2TJ471T	C. RESISTOR	1/4₩	470	entako d
R5, 6	ERDS2TJ183T	C. RESISTOR	1/4₩	18K	- Traces	R307	ERDS2TJ222T	C. RESISTOR	1/4W	2. 2K	6.18.83
27, 8	ERDS2TJ225	C. RESISTOR	1/4W	2. 2M		R311, 312	ERDS2TJ101T	C. RESISTOR	1/4W	100	141783333
39, 10	ERDS2TJ332T	C. RESISTOR	1/4W	3. 3K		R313, 314	ERDS2TJ154T	C. RESISTOR	1/4W	150K	an rizues - we c
211, 12	ERDS2TJ561T	C. RESISTOR	1/4W	560	31758730 308	R315, 316	ERDS2TJ153T	C. RESISTOR	1/4W	15K	WILTSPOWE
213, 14	ERDS2TJ332T	C. RESISTOR	1/4W	3. 3K	unifrana i nati	R319	ERDS2TJ102T	C. RESISTOR	1/4W	1K	
215, 16	ERDS2TJ101T	C. RESISTOR	1/4W	100	AL SANTAL MASS	R321	ERDS2TJ102T	C. RESISTOR	1/4W	1K	PasteMal
219, 20	ERDS2TJ101T	C. RESISTOR	1/4W	100		R329	ERDS2TJ222T	C. RESISTOR	1/4W	2. 2K	TALEBOOK THE
R21, 22	ERDS2TJ473T	C. RESISTOR	1/4₩	47K	MITSPINAL NOS	R351	ERDS2TJ1R0T	C. RESISTOR	1/4W	1.0	DECEMAGE
223, 24	ERDS2TJ101T	C. RESISTOR	1/4W	100	UT1 1991 1995	R352, 353	ERDS2TJ183T	C. RESISTOR	1/4W	18K	CASTOPINGS
225, 26	ERDS2TJ225	C. RESISTOR	1/4W	2. 2M	1,013201731 10.008	R354, 355	ERDS2TJ100T	C. RESISTOR	1/4W	10	
227, 28	ERDS2TJ820T	C. RESISTOR	1/4W	82		R356	ERDS2TJ471T	C. RESISTOR	1/4W	470	10 mm = 1
29, 30	ERDS2TJ103T	C. RESISTOR	1/4W	10K	E Section 1995	R357	ERDS2TJ222T	C. RESISTOR	1/4W	2. 2K	ros mense
31, 32	ERDS2TJ273T	C. RESISTOR	1/4W	27K		R361, 362	ERDS2TJ101T	C. RESISTOR	1/4W	100	
233, 34	ERDS2TJ183T	C. RESISTOR	1/4₩	18K	2197	R363, 364	ERDS2TJ154T	C. RESISTOR	1/4W	150K	tan januaritan k
35, 36	ERDS2TJ474T	C. RESISTOR	1/4W	470K	The board and	R365, 366	ERDS2TJ153T	C. RESISTOR	1/4W	15K	
37, 38	ERDS2TJ272T	C. RESISTOR	1/4W	2. 7K	ry Pings - 12 or	R369	ERDS2TJ102T	C. RESISTOR	1/4W	1K	i eta ja Cadilla e
43, 44	ERDS2TJ103T	C. RESISTOR	1/4W	10K	- (	R371	ERDS2TJ102T	C. RESISTOR	1/4W	1K	PROPERTY CONTRACTOR
R45, 46	ERDS2TJ223T	C. RESISTOR	1/4W	22K	remains pack	R379	ERDS2TJ222T	C. RESISTOR	1/4W	2. 2K	App Takena - 1
47, 48	ERDS2TJ472T	C. RESISTOR	1/4W	4. 7K	varosani ete reed	R401~404	ERDS2TJ101T	C. RESISTOR	1/4W	100	A WAR DOWNSTALL D
49, 50	ERDS2TJ102T	C. RESISTOR	1/4₩	1K	construction and const	R407, 408	ERDS2TJ242	C. RESISTOR	1/4W	2. 4K	
51, 52		C. RESISTOR	1/4₩	47	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	R409~412	ERDS2TJ684T	C. RESISTOR	1/4W	680K	Antropagna
53, 54	ERDS2TJ242	C. RESISTOR	1/4W	2. 4K	The supplier of the second	R413, 414	ERDS2TJ562T	C. RESISTOR	1/4W	5. 6K	ULA-LASUMO Sagrana awaran
55, 56		C. RESISTOR	1/4W	2. 7K	PRODUCTS DO REDUCT	R415, 416	ERDS2TJ102T	C. RESISTOR	1/4W	1K	
57, 58		C. RESISTOR	1/4W	10K	restricted to the second	R417, 418	ERDS2TJ332T	C. RESISTOR	1/4W	3. 3K	
59, 60		C. RESISTOR	1/4W	5. 6K	Set Souther And S	R419, 420	ERDS2TJ333T	C. RESISTOR	1/4W	33 K	niamonar A
65	ERDS2TJ392T	C. RESISTOR	1/4W	3. 9K	STREET, STREET		ERDS2TJ823T	-			SOMPLEMENT CONS
67	ERDS2TJ103T	C. RESISTOR	1/4W	10K		R421~424		C. RESISTOR	1/4W	82K	
75, 76		C. RESISTOR	1/4W	1K	A Salara Sal	R425, 426	ERDS2TJ683T	C. RESISTOR	1/4W	68K	
101, 102		C. RESISTOR			A MORAL A TOUR	R427, 428	ERDS2TJ222T	C. RESISTOR	1/4W	2. 2K	
103~108	-	C. RESISTOR	1/4W	2. 2M		R429, 430	ERDS2TJ512	C. RESISTOR	1/4₩	5. 1K	
109, 110				10K		R431, 432	ERDS2TJ123T	C. RESISTOR	1/4W	12K	
111, 112		C. RESISTOR C. RESISTOR	1/4₩	5. 6K	67 <u>27</u> 3131 67 <u>8</u> 8	R433, 434	ERDS2TJ362T	C. RESISTOR	1/4W	3. 6K	11 11 11 11 11 11 11 11 11 11 11 11 11
113, 114		C. RESISTOR	1/4₩	10K	03/1/3011	R435, 436	ERDS2TJ622	C. RESISTOR	1/4W	6. 2K	10.02130.631
			1/4₩	22K	oreginal resi	R437, 438	ERDS2TJ243	C. RESISTOR	1/4₩	24K	
115, 116	-	C. RESISTOR		4. 7K	ursean est	R439, 440	ERDS2TJ913T	C. RESISTOR	1/4₩	91K	TUTYETE M
117, 118		C. RESISTOR	1/4₩	47	Uprotate POSS	R441, 442	ERDS2TJ472T	C. RESISTOR	1/4W	4. 7K	entages a
121, 122		C. RESISTOR	1/4₩	1K	UNETER SAFE	R443~446	ERDS2TJ333T	C. RESISTOR	1/4₩	33K	COLUMNIA COLUMNIA
123, 124		C. RESISTOR		2. 4K	STEERS AND	R447, 448	ERDS2TJ682	C. RESISTOR	1/4W	6. 8K	
125, 126		C. RESISTOR		2. 7K	yennal segi	R449, 450	ERDS2TJ183T	C. RESISTOR	1/4W	18K	STEETE D
27, 128		C. RESISTOR	1/4₩	22K	20000001 000000000000000000000000000000	R451, 452	ERDS2TJ182	C. RESISTOR	1/4W	1. 8K	
129, 130		C. RESISTOR	1/4W	18K		R453~456	ERDS2TJ123	C. RESISTOR	1/4W	12K	H 178801 1
31, 132		C. RESISTOR	1/4W	47K	urseand i each	R457~460	ERDS2TJ112	C. RESISTOR	1/4₩	1. 1K	ELTAZONIO LI
133, 134	ERDS2TJ562T	C. RESISTOR	1/4W	5. 6K	MERCE SERVER	R461, 462	ERDS2TJ225	C. RESISTOR	1/4W	2. 2M	80382648 = 1

Ref. No.	Part No.	Part Name	& Descr	iption	Remarks	Ref. No.	Part No.	Part Name	& Descr	iption	Remarks
R463, 464	ERDS2TJ122T	C. RESISTOR	1/4₩	1. 2K	Less not eapp seed	R713	ERDS2TJ821T	C. RESISTOR	1/4W	820	rinsas Parein
R465, 466	ERDS2TJ392T	C. RESISTOR	1/4W	3. 9K	LECTS	R714	ERDS2TJ102T	C. RESISTOR	1/4W	1K	STET
R467	ERDS2TJ103T	C. RESISTOR	1/4₩	10K		R715	ERDS2TJ122T	C. RESISTOR	1/4W	1. 2K	
R468, 469	ERDS2TJ223T	C. RESISTOR	1/4₩	22K		R716	ERDS2TJ152T	C. RESISTOR	1/4W	1. 5K	
R470	ERDS2TJ822	C. RESISTOR	1/4₩	8. 2K		R717	ERDS2TJ182T	C. RESISTOR	1/4W	1. 8K	
R471, 472	ERDS2TJ104	C. RESISTOR	1/4W	100K	Surface act cons	R718	ERDS2TJ222T	C. RESISTOR	1/4₩	2. 2K	
R473~475	ERDS2TJ472T	C. RESISTOR	1/4W	4. 7K	HISTORIA LOSS	R719	ERDS2TJ332T	C. RESISTOR	1/4W	3. 3K	
R551~556	ERDS2TJ473T	C. RESISTOR	1/4W	47K	1811758111 011 1018	R720	ERDS2TJ472T	C. RESISTOR	1/4₩	4. 7K	
R557, 558	ERDS2TJ220	C. RESISTOR	1/4W	22	014112033 807 304	R721	ERDS2TJ682T	C. RESISTOR	1/4W	6. 8K	
R559, 560	ERDS2TJ152T	C. RESISTOR	1/4₩	1. 5K	Takanakasi angg	R722	ERDS2TJ123T	C. RESISTOR	1/4W	12K	3,4 (000.000)
R561	ERDS2TJ102T	C. RESISTOR	1/4₩	1K	22.023023 1000	R723	ERDS2TJ223T	C. RESISTOR	1/4₩	22K	BAUTSSAME 1.0
R562	ERDS2TJ471T	C. RESISTOR	1/4₩	470	OLOGACIST SECULO	R724	ERDS2TJ683T	C. RESISTOR	1/4W	68K	SATTSEGRE! BUT
R563, 564	ERDS2TJ103T	C. RESISTOR	1/4₩	10K	PROGRAMS ARCANA	R801	ERDS2TJ223T	C. RESISTOR	1/4W	22K	Δ
R565	ERDS2TJ105T	C. RESISTOR	1/4₩	1M	are and are	R802	ERDS2TJ821T	C. RESISTOR	1/4W	820	adusama, adus
R566, 567	ERDS2TJ103T	C. RESISTOR	1/4W	10K	107178201231 0 103	R803	ERG1SJ120E	M. RESISTOR	1W	12	en emberuse
R571, 572	ERDS2TJ562T	C. RESISTOR	1/4W	5. 6K	0107024246 1984	R804	ERDS2TJ223T	C. RESISTOR	1/4W	22K	<b>△</b>
R601, 602	ERDS2TJ472T	C. RESISTOR	1/4W	4. 7K	<b>A</b>	R805	ERDS2TJ821T	C. RESISTOR	1/4W	820	19, 20 120227110
R603	ERDS2TJ103T	C. RESISTOR	1/4W	10K		R806	ERDS2TJ223T	C. RESISTOR	1/4W	22K	VALES ESCENTIAL
R604	· · · · · · · · · · · · · · · · · · ·	C. RESISTOR	1/4W	4. 7K		R807	ERDS2TJ822	C. RESISTOR	1/4W	8. 2K	20.24 18.0827.101
R605	ERDS1FJ5R6	C. RESISTOR	1/2W	5. 6	(P, PC, E, E5, EG, GC, PE,	R808	ERDS2TJ682T	C. RESISTOR	1/4W	6. 8K	97.01.020891.009
	LIBOTI GOIG	o. ILDIDIOI	1/24	3.0	PX) A	R809	ERDS2TJ223T	C. RESISTOR	1/4W	22K	1020/01/2015
R605	ERD2FCVG100T	C. RESISTOR	1/4W	10	(EB, GN) A	R810	ERDS2TJ682T	C. RESISTOR	1/4W	6. 8K	areregge as as
R606	ERDS1FJ3R3	C. RESISTOR	1/2W			R811	ERDS2TJ822	C. RESISTOR	1.0000000000000000000000000000000000000		Certifolisms and the
R607, 608	-	C. RESISTOR		3. 3			the same and the s		1/4₩	8. 2K	Α
			1/4₩	1K	(D DO E PE PO CO DE	R812	ERDS2TJ223T	C. RESISTOR	1/4₩	22K	Δ
R611	ERDS1FVJ100T	C. RESISTOR	1/2₩	10	(P, PC, E, E5, EG, GC, PE,	R813	ERDS2TJ821T	C. RESISTOR	1/4₩	820	1 TO
0011	EDDOEGGG100T	a praiamon	1 / 4111	10.7	PX) A	R814	ERG1SJ120E	M. RESISTOR	1₩	12	S AT TO DOOR
R611		C. RESISTOR	1/4W	10	(EB, GN) A	R815	ERDS2TJ223T	C. RESISTOR	1/4W	22K	Δ
R612	ERDS1FJ270	C. RESISTOR	1/2W	27	(P, PC, E, E5, EG, GC, PE,	R816	ERDS2TJ821T	C. RESISTOR	1/4₩	820	ATTORUS
0010	EDDOEGGOZO	a projemop	1 / 400	0.7	PX) A	R817, 818	ERDS1FJ8R2	C. RESISTOR	1/2₩	8. 2	Δ
R612	ERD2FCG270	C. RESISTOR	1/4W	27	(EB, GN) △	R819, 820	ERDS2TJ103T	C. RESISTOR	1/4W	10K	FRICZIJIUE FRICZIJIUE
R613	ERDS2TJ102T	C. RESISTOR	1/4W	1K	ANTEROPOS NEW CORNE	R821, 822	ERDS2TJ391	C. RESISTOR	1/4W	390	THE SCHOOL STATE
R614	ERDS2TJ222T	C. RESISTOR	1/4W	2. 2K	<u>∧</u>	R823, 824	ERDS2TJ472T	C. RESISTOR	1/4W	4. 7K	
R615, 616	ERDS2TJ120T	C. RESISTOR	1/4W	12	(P, PC, E, E5, EG, GC, PE,	R825, 826	ERDS2TJ103T	C. RESISTOR	1/4W	10K	Control Control
			Water &	16 .7 1	PX) A	R827	ERDS2TJ563T	C. RESISTOR	1/4W	56K	015120357
R615, 616	ERD2FCG120	C. RESISTOR	1/4W	12	(EB, GN) △	R828	ERDS2TJ272T	C. RESISTOR	1/4W	2. 7K	rectivement of res
R617, 618	ERQ16NKR15E	F. RESISTOR	1/6W	0. 15	(EB, GN) △	R829	ERDS2TJ392T	C. RESISTOR	1/4₩	3. 9K	15 (1183621135)
R619~621	ERDS2TJ560	C. RESISTOR	1/4₩	56	(EB, GN)	R830	ERDS2TJ103T	C. RESISTOR	1/4₩	10K	
R622		F. RESISTOR	1/6W	0. 15	(EB, GN)	R831	ERDS2TJ152T	C. RESISTOR	1/4W	1. 5K	
R623	ERDS2TJ560	C. RESISTOR	1/4₩	56	(EB, GN)	R832	ERDS2TJ182	C. RESISTOR	1/4₩	1. 8K	ETINSHE SHOW
R632	ERD2FCVG150T	C. RESISTOR	1/4W	15	(EB, GN)	R833, 834	ERDS2TJ473T	C. RESISTOR	1/4₩	47K	ing 108 (ERPSZTJan
7701	ERDS2TJ821T	C. RESISTOR	1/4W	820	TECTION   DECEMBED	R835	ERDS2TJ102T	C. RESISTOR	1/4W	1K	DELTIZEFI OLI VOI
R702	ERDS2TJ102T	C. RESISTOR	1/4₩	1K	8 228, 438 - 38, 327, 18 <b>2</b> 2	R836	ERDS2TJ472T	C. RESISTOR	1/4₩	4. 7K	
703	ERDS2TJ122T	C. RESISTOR	1/4W	1. 2K	Past, 458   Habsettee	R837	ERDS2TJ473T	C. RESISTOR	1/4W	47K	
704	ERDS2TJ152T	C. RESISTOR	1/4₩	1. 5K	1403.430 [360.22TJ31]	R838	ERDS2TJ272T	C. RESISTOR	1/4W	2. 7K	THURSCARE PER CELLET
705	ERDS2TJ182T	C. RESISTOR	1/4W	1. 8K	Relling Session	R839	ERDS2TJ223T	C. RESISTOR	1/4W	22K	TRAIS (ENDOPTION)
706	ERDS2TJ222T	C. RESISTOR	1/4₩	2. 2K	R46-46 FRESTERS	R840	ERDS2TJ102T	C. RESISTOR	1/4₩	1K	121-122 ERASET FOR
R707	ERDS2TJ332T	C. RESISTOR	1/4W	3. 3K	830,90000E) 663 7746	R841	ERDS2TJ223T	C. RESISTOR	1/4W	22K	123 324 ENDS21324
708		C. RESISTOR	1/4W	4. 7K	stradelje i da Com	R842	ERDS2TJ123	C. RESISTOR	1/4₩	12K	125 126   688821327
709	ERDS2TJ682	C. RESISTOR	1/4W	6. 8K	BALL 468 JUNSSELLISE	R843	ERDS2TJ393T	C. RESISTOR	1/4W	39K	127-137 (2015)21322
710		C. RESISTOR	1/4W	12K	RAGO - AMO   LAMBERTAR	R844	ERDS2TJ472T	C. RESISTOR	1/4W	4.7K	129, 139 ENDSZTULBE
711		C. RESISTOR	1/4W	22K	RASS- 440 - [DEDS2711]	R845	ERDS2TJ823	C. RESISTOR	1/4W	82K	LSL ISC (LRICETLATE
712		C. RESISTOR	1/4W	68K	Taba messer s. Tone and a	R846	ERDS2TJ101	C. RESISTOR	1/4W	100	A PROPERTY OF THE PARTY

Ref. No.	Part No.	Part Name	& Descr	iption	Remarks	Ref. No.	Part No.	Part Name	& Desc	ription	Remarks
R847	ERDS2TJ102T	C. RESISTOR	1/4₩	○ 1K	CASA 472 JEONGARIBE	R965	ERDS2TJ103T	C. RESISTOR	1/4₩	10K	est ette
R848, 849	ERG1SJ120E	M. RESISTOR	1₩	12	CATOL 474   ECCALHADI	R966	ERDS2TJ223T	C. RESISTOR	1/4₩	22K	<u> </u>
R850, 851	ERDS2TJ103T	C. RESISTOR	1/4₩	10K	SCOURTEDA, SCOUNTEROS	R967	ERDS2TJ821T	C. RESISTOR	1/4W	820	CBLA BRA   ECCSIMICS
R852, 853	ERDS1FJ470	C. RESISTOR	1/2₩	47	<u> </u>	R971, 971A	ERDS2TJ271T	C. RESISTOR	1/4₩	270	0225, 225   5070731122
R854	ERDS2TJ103T	C. RESISTOR	1/4₩	10K	CORE SEA SEARCHAD	R972, 972A	ERDS2TJ183T	C. RESISTOR	1/4₩	18K	Darat Mose 8220
R855, 856	ERDS2TJ473T	C. RESISTOR	1/4₩	47K	100 H (17/00) 1 2 2 2 2			ne var	101104	(40 % 77	
R857, 858	ERDS2TJ473T	C. RESISTOR	1/4₩	47K	(EB, GN)			CAPACITORS	THE DAY	140 71 6	037012530 1730
R901	ERDS2TJ473T	C. RESISTOR	1/4₩	47K	180 1.8000 T.840		l V	10.0 700	SOTIDAS	MU di	Call (CO)
R903	ERDS2TJ393T	C. RESISTOR	1/4₩	39K	1008 A105 8000	C1~4	ECEA1HK010B	E. CAPACITOR	50V	1U	DEE TEERLEMAN
R904, 905	ERDS2TJ222T	C. RESISTOR	1/4₩	2. 2K	ostancal secondo	C5, 6	ECEA1CK220B	E. CAPACITOR	16V	22U	6250 (630)34903
R906	ERDS2TJ103T	C. RESISTOR	1/4₩	10K	1000011800 - 6020	C7~10	RCBS1H331KBY	C. CAPACITOR	50V	330P	0354, 355   1076818222
R907	ERDS2TJ563	C. RESISTOR	1/4W	56K	ess estation	C11, 12	ECBT1H102KB5	C. CAPACITOR	50V	1000P	0356 035838882
R908~910	ERDS2TJ103T	C. RESISTOR	1/4W	10K	CEDIZ, B H   HOMALEUME	C13, 14	ECEAOJU101B	E. CAPACITOR	6. 3V	100U	caneryos). esco
R911	ERDS2TJ392T	C. RESISTOR	1/4W	3. 9K	AND THE STATE OF THE SECOND SE	C15, 16	ECQB1H682JZ3	P. CAPACITOR	50V	6800P	COLO ECEPTHATE
R912	ERDS2TJ272T	C. RESISTOR	1/4W	2. 7K	onas, sor letturusus t	C17~20	ECEA1EK4R7B	E. CAPACITOR	25V	4. 7U	TAUA (AGE) 1800
R913	ERDS2TJ152T	C. RESISTOR	1/4W	1. 5K	100 SEE   SEE   100 SEE	C21	ECEAOJU101B	E. CAPACITOR	6. 3V	100U	63.61.180.03 L B86.03.019.23
R914	ERDS2TJ182	C. RESISTOR	1/4₩	1. 8K	CETOLETT ECENTABREE	C25, 26	ECEA1HK010B	E. CAPACITOR	50V	10	CS65, 365   BOS 18623
R915	ERDS2TJ473T	C. RESISTOR	1/4W	47K	COLL ECEN SUATE	C27, 28	ECBT1H561KB5	C. CAPACITOR	50V	560P	0.467 0.68   180.38141121
R916	ERDS2TJ272T	C. RESISTOR	1/4W	2. 7K	TAMENARON CHRO	C29, 30	ECKD2H101KB	C. CAPACITOR	500V	100P	cash, ord   ECOVIHION
R917, 918	ERDS2TJ103T	C. RESISTOR	1/4₩	10K	1881 1881 1881	C31, 32	ECCT1H181K	C. CAPACITOR	50V	180P	222713333 877 1723
R919	ERDS2TJ471T	C. RESISTOR	1/4₩	470	9908176071 1500	C33, 34	ECEA1HKR47	E. CAPACITOR	50V		EGTELSONS FOR STEEL
R920, 921	ERDS2TJ103T	C. RESISTOR	1/4₩	10K	Maria arami saas	C35, 36	ECQB1H472JZ3	P. CAPACITOR		4700P	CONTRACTOR AND FORD
R923	ERDS2TJ102T	C. RESISTOR	1/4W	1K	rana sensi anan	C37, 38	ECQB1H223JZ3	P. CAPACITOR		0. 022U	Caratzens acen
R924	ERDS2TJ103T	C. RESISTOR	1/4W	10K	753413003 XXX	C39, 40	ECQB1H223JZ3 ECQB1H103JZ	P. CAPACITOR		0. 0220 0. 01U	Karaman and
R925	ERDS2TJ273T	C. RESISTOR	1/4W	27K			ECQB1H1033Z ECQB1H223JZ3	1.00		0. 010 0. 022U	
R926		C. RESISTOR	1/4W	1K		C41, 42		P. CAPACITOR			Swan con town
R927		C. RESISTOR		22K	deces crand con	C45, 46	ECBT1E103ZF5	C. CAPACITOR		0.010	CONSTRUCTION NO. 13 CAN
R928	ERDS2TJ262T	C. RESISTOR	1/4W 1/4W	5. 6K	and the control of th	C49, 50	ECEA1CK100B	E. CAPACITOR	16V	100	erremon and
R929	ERDS2TJ272T	C. RESISTOR	1/4W	2. 7K		C53, 54	ECQB1H273JZ3	P. CAPACITOR		0. 027U	erancesis raa gaar
R932	ERDS2TJ392T	C. RESISTOR	1/4W	3. 9K	tearsever con	C55	ECBT1E103ZF5	C. CAPACITOR	10V	0. 01U	ernomas ana
R933	ERDS2TJ472T	C. RESISTOR	1/4W	4. 7K	1000	C57, 58	RCBS1H4R7KCY	E. CAPACITOR C. CAPACITOR	50V	470	Editional as best
R934	ERDS2TJ105T					-				4. 70	dustrastati san tea
R935		C. RESISTOR C. RESISTOR	1/4W	1M		C101, 102	ECBT1H102KB5	C. CAPACITOR	50V		Justin Chieff Ale (Electronical Alexander
	ERDS2TJ182		1/4₩	1. 8K		C103, 104		C. CAPACITOR	500V		Note the first of the second
R943	ERDS2TJ223T	C. RESISTOR	1/4W	22K		C105, 106		C. CAPACITOR	50V	560P	SERVICE FORCE ON THE PROPERTY OF THE PROPERTY
R945	ERDS2TJ223T	C. RESISTOR	1/4W	22K		C107, 108	ECEA1HKR47	E. CAPACITOR		0. 47U	Townships are town
R946, 947	ERDS2TJ102T	C. RESISTOR	1/4₩	1K		C109, 110	RCBS1H181KB	C. CAPACITOR	50V	180P	C4 Z1
R948	ERDS2TJ184	C. RESISTOR	1/4₩	180K		C111, 112	ECQB1H273JZ3	P. CAPACITOR		0. 027U	
R949	ERDS2TJ103T	C. RESISTOR	1/4₩	10K		C113, 114	ECQB1H103JZ	P. CAPACITOR		0.010	
R950	ERDS2TJ332T	C. RESISTOR	1/4₩	3. 3K		C115, 116	ECQB1H273JZ3	P. CAPACITOR		0. 027U	
1951		C. RESISTOR	1/4W	10K		C119, 120	ECEA1HK010B	E. CAPACITOR	50V	10	TELLES (1907) (1907)
R952		C. RESISTOR	1/4₩	3. 9K		C121	-	C. CAPACITOR		0.010	LEAR PRO PEUCALAÇÃO
1953		C. RESISTOR	1/4₩	10K		C301	ECQP1153JZ	P. CAPACITOR		0. 015U	termiogodi, par Jabo
1954	Annual State of Control of Contro	C. RESISTOR	1/4₩	22K	$\triangle$	C302	ECEA1EK4R7B	E. CAPACITOR	25V	4. 7U	HESSELESCH SN- (1990)
1955		C. RESISTOR	1/4W	820		C303	ECKD1H392K	C. CAPACITOR	50V		NIAMARUS BER (SER)
2956		C. RESISTOR	1/4W	22K	$\triangle$	C304, 305	ECFR1E222KAY	S. CAPACITOR		2200P	6-047/4031 (63-64A)
		C. RESISTOR	1/4W	820		C306	ECFR1E682KAY	S. CAPACITOR	25V		CONTROL SEPTEMBER
		C. RESISTOR	1/4W	22K	<u>^</u>	C309	ECKT1H103ZF	C. CAPACITOR	50V		CAST. 458   RELEADED
	ERDS2TJ821T	C. RESISTOR	1/4₩	820		C310	ECKD1H472KB	C. CAPACITOR	50V		CASO, 167 - ECQVIRISA
960	ERDS2TJ153T	C. RESISTOR	1/4₩	15K		C311	ECEA1AU471	E. CAPACITOR	107	470U	0461, 462   000/110883
962	ERDS2TJ103T	C. RESISTOR	1/4₩	10K		C313, 314	ECQB1H223JZ3	P. CAPACITOR	50V	0. 022U	CERTIFICATIONS (SECTIONS)
963	ERDS2TJ392T	C. RESISTOR	1/4W	3. 9K		C315, 316	ECBT1H821KB5	C. CAPACITOR	507	820P	CARRIAGO (ECENTRICA
964	ERDS2TJ184	C. RESISTOR	1/4₩	180K		C317, 318	RCBS1H121KBY	C. CAPACITOR	50V	120P	CHES-EZ BECTALVELR

Ref. No.	Part No.	Part Name	& Description	Remarks	Ref. No.	Part No.	Part Name 8	& Descr	ription	Remarks
C319, 320	ECQV1H104JZ3	P. CAPACITOR	50V 0.1U	OTUESMAN ZOOR	C469 472	ECKD1H182KB	C. CAPACITOR	50V	1800P	847 GRDS2T110
C321, 322	ECQB1H223JZ3	P. CAPACITOR	50V 0. 022U	1000 BRIST W 22	C473, 474	ECEA1HK010B	E. CAPACITOR	50V	1U	SAAR BAG STREET STORY
C323, 324	ECQB1H103JZ3	P. CAPACITOR	50V 0.01U	3.80759.879 TAPE	C505, 506	ECBT1E103ZF5	C. CAPACITOR	25V	0. 01U	1011122093 100321110
C325, 326	ECKD1H122KB	C. CAPACITOR	50V 1200P	REFERENCE OF THE PROPERTY OF	C551, 552	ECQV1H104JZ3	P. CAPACITOR	50V	0. 1U	NACTORAL TON SUB
C328	RCBS1H100JCY	C. CAPACITOR	50V 10P	1902.872A E07937718	C553, 554	ECEAOJK101	E. CAPACITOR	6. 3V	100U	001.0020001 A80
C331	ECBT1E103ZF5	C. CAPACITOR	25V 0.01U		C555	ECKT1H103ZF	C. CAPACITOR		0. 01U	TALTESSE SEE EAST
C332	ECEA1CK100B	E. CAPACITOR	16V 10U		C556	ECEA1CK100B	E. CAPACITOR	16V	10U	
C351	ECQP1153JZ	P. CAPACITOR	50V 0. 015U		C557	ECEA1EK4R7B	E. CAPACITOR	25V	4. 7U	te traphs inpr
C352	ECEA1EK4R7B	E. CAPACITOR	25V 4.7U		C558	ECEA1HK010B	E. CAPACITOR	50V	1U	petrosanai cha
C353	ECKD1H392K	C. CAPACITOR	50V 3900P	V000114999 3 50	C559~562	ECKT1H103ZF	C. CAPACITOR	50V	0. 01U	100137 3399 5 MBS
C354, 355	ECFR1E222KAY	S. CAPACITOR	25V 2200P	to regard or to	C565	ECBT1E103ZF5	C. CAPACITOR		0.01U	CONTEXES ADDS
C356	ECFR1E682KAY	S. CAPACITOR	25V 6800P	shading to the	C601	ECKT2H682PEL	C. CAPACITOR	500V	6800P	Δ
C359	ECKT1H103ZF	C. CAPACITOR	50V 0.01U		C602, 603	ECEA1EU102B	E. CAPACITOR		1000U	<b>↑</b>
C360	ECKD1H472KB	C. CAPACITOR	50V 4700P	29.04.030.02	C604, 605	ECKT1H103ZF	C. CAPACITOR		0. 01U	22.702132
C361	ECEA1AU471	E. CAPACITOR	10V 470U	Coverage income example	C606, 607	ECEA1AU471	E. CAPACITOR	10V	470U	1 T1 T2 27 77 2
C363, 364	ECQB1H223JZ3	P. CAPACITOR	50V 0. 022U	ers as er	C608, 609	ECKT1H103ZF	C. CAPACITOR		0. 01U	27.727047
C365, 366	ECBT1H821KB5	C. CAPACITOR	50V 820P	COSTAGOS DE RECESOS	C610, 611	ECEA1AU222	E. CAPACITOR		2200U	RITE 20 93 AT 05
C367, 368		C. CAPACITOR	50V 120P	razerransi sa ka	C612	ECEA1EU472E	E. CAPACITOR		4700U	Δ
C369, 370		P. CAPACITOR	50V 0.1U	19 31 CONOR - CO. DEC	C613	ECEA1HU470	E. CAPACITOR	50V	47U	retrivedad tales
		P. CAPACITOR	50V 0. 022U	DETERMINED	C615		C. CAPACITOR		0. 01U	(EB, GN)
		P. CAPACITOR	50V 0.01U	MENUARON REPORT	C801	ECEA1HK2R2	E. CAPACITOR	50V	2. 2U	(25) div
		C. CAPACITOR	50V 1200P		C802	ECCD1H470K	C. CAPACITOR	50V	47P	ALL TOTAL TOURS
C378		C. CAPACITOR	50V 10P		C803	ECEA1CK100B	E. CAPACITOR	16V	10U	destructions of the man
C381		C. CAPACITOR	25V 0.01U	ra ergent ox per	C804	ECQB1H822JZ	P. CAPACITOR	50V	8200P	dorrespondi espe
C382		E. CAPACITOR	16V 10U	perproper de ren	C805, 806	ECEA1CN100S	E. CAPACITOR	16V	10U	CALLEGATOR DEVIS
		C. CAPACITOR	50V 82P		C807, 808	ECEA1CK100B	E. CAPACITOR	16V	10U	
C403, 404		E. CAPACITOR	25V 4.7U	Managara ca asa	C901	ECEAOJU222B	E. CAPACITOR		2200U	des trades 5200
		C. CAPACITOR	50V 1200P	renarana va est	C903	ECEA1HK010B	E. CAPACITOR	50V	1U	ALAST CONTAIN DAME
		C. CAPACITOR	50V 4700P		C904		E. CAPACITOR	25V	4. 7U	reet records ones
		C. CAPACITOR	50V 1200P	PARA PARANTI DE PARA	C907	ECKT1H103ZF	C. CAPACITOR		0. 01U	TAUSACULE CAU
		P. CAPACITOR	50V 4700P	TOUR STREET OF LOUIS	0307	LONTINIOSZI	o. OAI AOTTOIL	307	0.010	Trat propage cons
		E. CAPACITOR	16V 10U			1 2	200	TOTALS	10 .VA 1.	
		P. CAPACITOR	50V 0. 047U	ramossas an ente		1 10	2 WeV :	ni i Gradi		REGISSION CONTRACTOR
	ECQV1H224JZ3		50V 0. 22U	razirra'a par soro		1 48	1	Sen Light	ger all ex	aga manosotal gunar
		E. CAPACITOR	50V 0.68U	rostrant or etc.		7 1 395	D NEW T	15/2 2 4 G	to all to	
	ECQV1H224JZ3		50V 0. 22U	eran tel Geregesser		- G	100	gerena or	in ni	And condit! Stor
		P. CAPACITOR	50V 0. 047U	ATRICONICE ST. ST. ST.		1 3	and the same	001 20.		China Cana   Les Joses
		E. CAPACITOR	16V 10U	nacement are set	-	3/7	1787 V.	146161		on an account of the state of t
		P. CAPACITOR	50V 4700P	erica especial principal de la compania de la comp		I AR	6 82 V.L		10 at 1 au	Maria (Chande) . Ptal
		P. CAPACITOR	50V 0.01U			1 .70	.a. 242° J.		Maria de la compansión de	
		E. CAPACITOR	10V 22U	ntadramada da bira waxayana eara			0 1060 t		171	52 U 2 SARBO 2 2001
		P. CAPACITOR	50V 0. 015U	onenimos, 1217.	-	/AS	A MANAGEMENT		or of or	
	RCBS1H331KBY		50V 0.0130			A 1	g Bleve			restantian name
		E. CAPACITOR	10V 22U	endangan kabu		413	o 1083 i	100 G (G)	and the	n avaskettii Gosk
	ECQV1H104JZ3		50V 0. 1U		-	1 ( 0)	o may	ur didi	er al	esercional Such
-	ECQB1H332JZ3		50V 3300P			775 C	a nevil	n Lold.	mal n	20 M, 20 MM (20 MM)
	RCBS1H331KBY		50V 330P		-	1 G	0 8871 .	resoldi	mad i	2010 10 02 02 1 1 1 1 1 1 1 1 1 1 1 1 1
		P. CAPACITOR	50V 0.18U	eran u tireda ja a sala di eran u tireda ja a sala di sala		13 -1	26 Ye V			CN01 (1800) 0 (19) 063 (19) 2832 (
-		P. CAPACITOR	50V 0. 18U	o remaiorimus (Education) California (Education)	-	1 (3)	o MIL			politiculo) Effici
				reservation of the second		1 80	1 VP	100 5 2 60		cuticate to defi
		E. CAPACITOR E. CAPACITOR	10V 22U 25V 3. 3U	voca and are seen	-	As	Wish I	NI C-1		2007 2007 1 2007
				garding 1903   All p. No.			WE'V	BHZ1Z		TO SEE SEE SEE SEE SEE SEE SEE SEE SEE SE
J405~414	ECEA1HK1R5B	E. CAPACITOR	50V 1.5U	is mestally business			CI / WAY	101212	51.0	RESA CHERTILS

# **REPLACEMENT PARTS LIST**

Notes: \* Important safety notice:
Components identified by △ mark have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.

\* Parenthesis indications in Remarks columns specify the area. (Refer to the first page for area.)

Parts without these indications can be used for all areas.

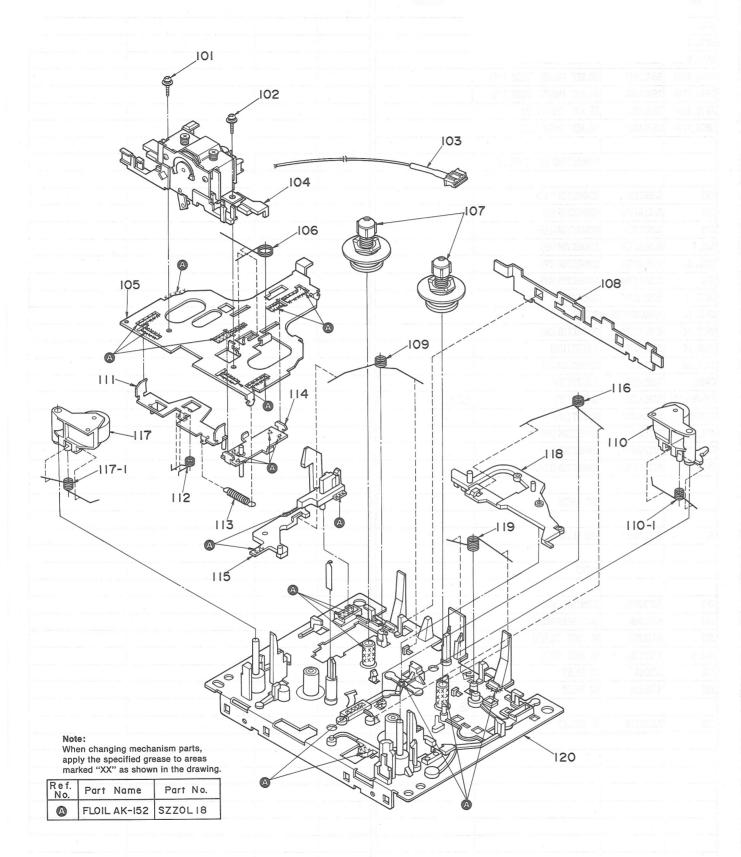
Ref. No.	Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
				Q803	2SB1030RSTTA	TRANSISTOR	Δ
		INTEGRATED CIRCUITS		Q804	DTC114ESTP	TRANSISTOR	
	1			Q805	2SC3311A-Q	TRANSISTOR	6.000000
IC1	AN7384	IC, ELECTRIC VOLUME		Q806, 807	DTC114ESTP	TRANSISTOR	
IC2	AN7351K	IC, PLAYBACK/REC AMP	1	Q808	2SC3311A-Q	TRANSISTOR	ADMITSUE I
IC3	M5218L	IC, HEADPHONES AMP	Δ	Q809	2SB1030RSTTA	TRANSISTOR	$\triangle$
IC101	M5218L	IC, RECORD AMP	7	Q810	DTC114ESTP	TRANSISTOR	
IC301	UPC1297CA	IC, DOLBY HX PRO		Q811	2SB1030RSTTA	TRANSISTOR	$\triangle$
IC351	UPC1297CA	IC, DOLBY HX PRO		Q812	DTC114ESTP	TRANSISTOR	3000000
IC401, 402	TEA0665	IC, DOLBY B/C NR		Q813, 814	DTA114ESTP	TRANSISTOR	TIMBER 1-0
IC403	AN6294NK	IC, dbx NR		Q815	2SB1030RSTTA	TRANSISTOR	TOOMS.
IC404, 405	MN6634	IC, SELECTOR		Q816	2SC3311A-Q	TRANSISTOR	ECHINES S
IC551	HD404302SA02	IC, MICROCOMPUTER, FL METER		Q817, 818	2SC3311A-Q	TRANSISTOR	(EB, GN)
IC552	M5218L	IC, BUFFER AMP		Q901	2SC3311A-Q	TRANSISTOR	87000091
IC801	LB1648	IC, MOTOR DRIVE		Q902, 903	DTA114ESTP	TRANSISTOR	I-\$100@81 8
IC802	M5218L	IC, MUSIC SELECTOR		Q904	2SB1030RSTTA	TRANSISTOR	0900 <b>9M3</b> 8
IC901	M50746-147SP	IC, MICROCOMPUTER, MECHANICAL		Q905	2SC3311A-Q	TRANSISTOR	POSSON I
IC971, 971A	GP2S06BC	IC, PHOTO COUPLER		Q906	DTC114ESTP	TRANSISTOR	2-1 RUN1402
				Q907	2SA1309AQSTA	TRANSISTOR	8 RXL0907
		TRANSISTORS		Q908, 909	DTA114ESTP	TRANSISTOR	ECCAINGE C
	_			Q910	DTC114ESTP	TRANSISTOR	08002201
Q1~4	2SJ164PQRTA	TRANSISTOR		Q911	2SA1309AQSTA	TRANSISTOR	1423-10-1581
Q5~8	2SA1309AQSTA	TRANSISTOR		Q912	2SB621ARSTA	TRANSISTOR	Δ
Q9~14	2SC3311A-Q	TRANSISTOR		Q913	DTC114ESTP	TRANSISTOR	Lit-COMING C
Q101, 102	2SJ164PQRTA	TRANSISTOR		Q914	2SB1030RSTTA	TRANSISTOR	Δ
Q103, 104	2SC3311A-Q	TRANSISTOR		Q915	DTC114ESTP	TRANSISTOR	8400446
Q105, 106	2SD1450RSTA	TRANSISTOR		Q916	2SB1030RSTTA	TRANSISTOR	Δ
Q107, 108	2SA1309AQSTA	TRANSISTOR		Q917	DTC114ESTP	TRANSISTOR	
Q109~112	2SC3311A-Q	TRANSISTOR		Q918	2SA1309AQSTA	TRANSISTOR	X12020081 8
Q113, 114	2SK381BCD	TRANSISTOR		Q919	DTC114ESTP	TRANSISTOR	0801080
Q301, 302	2SC3311A-Q	TRANSISTOR		Q920	2SB621ARSTA	TRANSISTOR	<b>▲</b> 38289.3
Q303	2SB621ARSTA	TRANSISTOR		Q921, 922	DTC114ESTP	TRANSISTOR	cass.28
Q304	2SD592A	TRANSISTOR			101112011	18300	28-5841X
Q351, 352	2SC3311A-Q	TRANSISTOR		-		DIODES	TITIONS 2
Q353	2SB621ARSTA	TRANSISTOR				979.72	81-85M1X1 D
Q354	2SD592A	TRANSISTOR		D1, 2	MA167TA	DIODE	0250009
Q401~404	2SC3311A-Q	TRANSISTOR		D101, 102	MA167TA	DIODE	20000000
Q551		TRANSISTOR		D101, 102	MA165TA	DIODE	1,0003.981
Q601		TRANSISTOR	Δ	D311, 312	MA165TA	DIODE	1 100 mm
Q603	2SC3311A-Q	TRANSISTOR	Δ	D313	MA4082MTA	DIODE	S S C STAND S S S S S S S S S S S S S S S S S S S
Q604	2SD2037EFTA	TRANSISTOR		D351, 352	MA165TA	DIODE	STATOMAN 0
Q605		TRANSISTOR		D363	MA4082MTA	DIODE	Sections 2
Q606	2SD2037EFTA	TRANSISTOR		D401	-		Appropriate of
2607	2SB621ARSTA	TRANSISTOR		-	MA165TA	DIODE	PSUSSAII S
2608			(ED CM)	D551~554	MA165TA	DIODE	PROFESSION T
)801		TRANSISTOR	(EB, GN)	D555	MA4056MTA	DIODE	A 000000000000000000000000000000000000
		TRANSISTOR	Δ	D601~606	1SR35200TB	DIODE	$\triangle$
1802	DTC114ESTP	TRANSISTOR		D607, 608	MA4082MTA	DIODE	A111901 P

Ref. No.	Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
609	MA4240H	DIODE		L403, 404	SLM1B8-K	COIL	
610	MA4062LTA	DIODE		L501, 502	RLQZP101KT-Y	COIL	
611	1SR35200TB	DIODE	<b>A</b>	L503, 504	RLQZP1R0KT-Y	COIL	K95
612	MA165TA	DIODE			1700		
301	MA4051L	DIODE		7		TRANSFORMERS	
302	MA4075MTA	DIODE		1 / //	1/1/1	1	
803	MA4051L	DIODE	1	T601	RTP1V4B006-C	POWER TRANSFORMER	(EB, GN) A
804	MA4075MTA	DIODE		T601	RTP1V4E005-C	POWER TRANSFORMER	(E, E5, EG) ⚠
805, 806	MA165TA	DIODE		T601	RTP1V4E006-C	POWER TRANSFORMER	(GC, PE, PX) A
808~811	MA165TA	DIODE		T601	RTP1V4P001-C	POWER TRANSFORMER	(P, PC) A
813~817	MA165TA	DIODE					
901~907	MA165TA	DIODE			16 9	OSCILLATORS	
908	1SR35200TB	DIODE	191		ENST.		
909, 910	MA165TA	DIODE		X551	EFOGC4004T4	CERAMIC FILTER	
911, 912	MA165TA	DIODE	Δ	X901	EFOGC4004T4	CERAMIC FILTER	
913	MA165TA	DIODE					
914	MA4051MTA	DIODE				DISPLAY TUBE	
971, 971A	1SS133	DIODE				DIGI ENI TODE	
972, 972A	1SS133	DIODE		FL551	RSL0011F	DISPLAY TUBE (FL METER)	
012, 0121	100100			1 1 1 1 1	IDLOUIT	DISTERT TODE (TE METER)	
281	1/20	I. C. PROTECTOR			1 181 1	SWITCHES	
	5 11 1	1. O. I ROLLOTOR	QF1		201	SWITCHES	
CP1	SRUN10T	IC PROTECTOR	(EB, GN)	S601	SSR187-1	SW, VOLTAGE SELECTOR	(CC DE DV) A
011	DIONIOI	TO TROTEOTOR	(LD, dit)	S701			(GC, PE, PX) 🛆
		VARIABLE RESISTORS			EVQQB005R	SW, STOP (DECK 1)	
		VARIABLE RESISIONS		S702	EVQQB005R	SW, F. F. (DECK 1)	
R1, 2	EV IOSEEO1 D1 E	IN D. DEG. I PUPI GOMPDOI		S703	EVQQB005R	SW, REW. (DECK 1)	
	-	V. R, REC. LEVEL CONTROL		S704	EVQQB005R	SW, F. PLAYBACK (DECK 1)	198
R3~6		V. R, PLAYBACK GAIN ADJ.		S705	EVQQB005R	SW, REVERSE MODE	
R7, 8		V. R, OVERALL GAIN ADJ.		S706	EVQQB005R	SW, REVERSE MODE	
R101, 102		V. R, OVERALL GAIN ADJ.		S707	EVQQB005R	SW, REVERSE MODE	
R301		V. R, ERASE CURRENT ADJ.		S708	EVQQB005R	SW, AUTO REC MUTE (DECK 2)	
R302, 303		V. R, OVERALL FREQ ADJ.		S709	EVQQB005R	SW, R. PLAYBACK (DECK 1)	
R351		V. R, ERASE CURRENT ADJ.		S710	EVQQB005R	SW, METER RANGE	
R352, 353	EVNDXAA00B14	V. R, OVERALL FREQ ADJ.		S711	EVQQB005R	SW, STOP (DECK 2)	
R801	EVNDXAA00B53	V. R, dbx TIMING ADJ.		S712	EVQQB005R	SW, F. F. (DECK 2)	
R901~903	EVNDXAA00B53	V. R, TAPE SPEED ADJ.	28	S713	EVQQB005R	SW, REW. (DECK 2)	
				S714	EVQQB005R	SW, F. PLAYBACK (DECK 2)	
		COMPONENT COMBINATIONS	1 1 2 1 P 2	S715	EVQQB005R	SW, R. PLAYBACK (DECK 2)	
			18-16-50	S716	EVQQB005R	SW, REC. (DECK 2)	
801~803	EXBF7E562JYV	COMPONENT COMBINATION	126 St. 1	S717	EVQQB005R	SW, PAUSE (DECK 2)	
				S718	EVQQB005R	SW, SYNCHRO-START	
		COILS		S719	EVQQB005R	SW, X2 SPEED	
		6.7.5		S720	EVQQB005R	SW, X1 SPEED	Note:
1, 2	SLQX303-1KT	COIL		S721	EVQQB005R	SW, DOLBY C NR	ce esti sigga
3, 4	SLQX272-1YT	COIL		S722	EVQQB005R	SW, DOLBY B NR	· Legiste
01, 102	SLQX303-1KT	COIL	UERLA	S723	EVQQB005R	SW, COUNTER RESET 1	100.00
103, 104	SLQX272-1YT	COIL	150,V	S724	EVQQB005R	SW, COUNTER RESET 2	- 110 13 63
801	SL09B4-K	COIL		S725	SSH1230	SW, POWER	Δ
302, 303	SL09B1-K	COIL		S726	SSS180-1	SW, TIMER	
351	SL09B4-K	COIL		S728	EVQQB005R	SW, REC. (DECK1)	
352, 353	SL09B1-K	COIL		S729	EVQQB005R EVQQB005R	SW, PAUSE (DECK 1)	
02, 000	QLM9Z10K	COIL		S730	EVQQB005R EVQQB005R	SW, AUTO REC MUTE (DECK 1)	

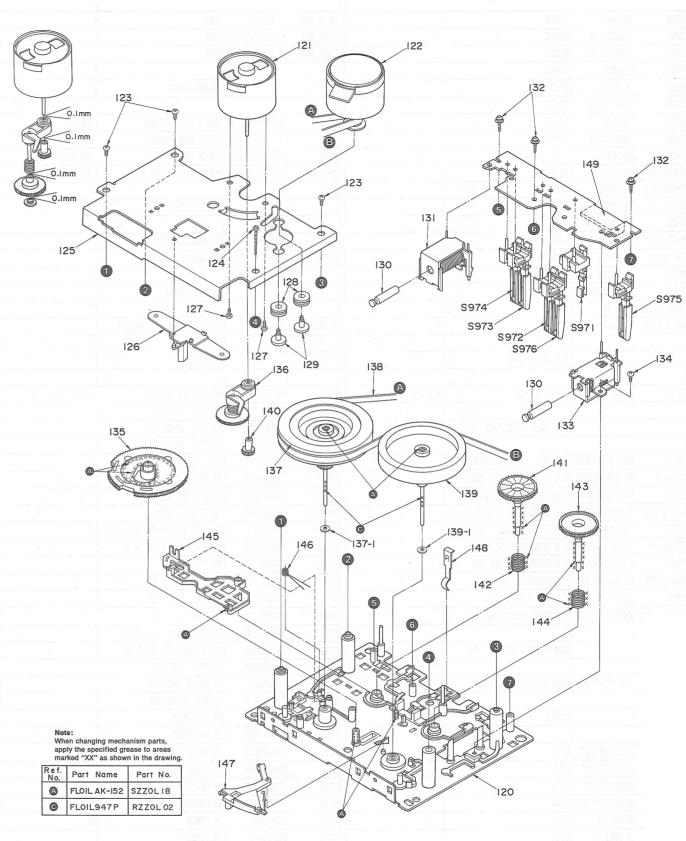
Ref. No.	Part No.	Part Name & Description	Remarks			20 <sup>2</sup>	
731	EVQQB005R	SW, dbx NOISE REDUCTION			-	,	
971, 971A	RSH1A89Z	SW, MODE (DECK 1/2)					
972, 972A	RSH1A90Z	SW, HALF (DECK 1/2)				101	
3973, 973A	RSH1A90Z	SW, REC INH(R) (DECK 1/2)				78.5	
5974, 974A	RSH1A90Z	SW, REC INH(F) (DECK 1/2)			001	396	
5975, 975A	RSH1A90Z	SW, ATS (DECK 1/2)					
6976, 976A	RSH1A90Z	SW, ATS (DECK 1/2)					
370, 3702	IGHTAGOZ	Sm, A15 (DLON 1/2)	801:				
		CONNECTORS AND SOCKETS					
		CONNECTORS AND SOCIETS					*
CN3	SJSD1105	CONNECTOR (11P)			201		
N4	RJS1A1704	CONNECTOR (4P)	4.1				
N5	SJSD1105	CONNECTOR (11P)			Co.		
N6, 7					5V'		
	RJS1A1704	CONNECTOR (4P)					
N8A, 8B	RJS1A1705	CONNECTOR (5P)			31		
CN9	RJS1A1704	CONNECTOR (4P)					
CN10	RJS1A1705	CONNECTOR (5P)					1
N11, 12	RJU003K010M	SOCKET (10P)					
CN13, 14	RJS1A1703	CONNECTOR (3P)		500			
N15, 16	SJS51078JQ	SOCKET (10P)	1 2 2 2				773
CN17, 18	SJTD313	CONNECTOR (3P)					
CN601	RJS1A1101	SOCKET (1P)				No. 92.92	
CN602~604	-	SOCKET (1P)	(GC, PE, PX)				
	RJS1A1101	SOCKET (1P)					65 21
CP1, 2	SJTD513	CONNECTOR (3P)			37	9 Wister Til	
CP11, 12	RJT003K010	CONNECTOR (10P)					
CP15, 16	SJT31045JQ	CONNECTOR (10P)					1-711-311
lla	21	11 4 (BK )2					
		GND PARTS				524	
	DAG :	1 / / / /		139		X 1 2	
E1	SNE1004-1	GND PLATE					
		JACKS			8 5	and the second	
					_@		
TK1	SJF3069N	TERMINAL BOARD	Ban Jillia	900			
JK2	SJJ134B	JACK, HEADPHONES					
JK3	RJJ33T01	M3 JACK (BLACK)					
JK4, 5	RJJ33TR01	M3 JACK (RED)			a <sup>s</sup> id		
JK6	SJSD16	AC INLET	(P, PC, GN) △				. *
JK6	SJS9236	AC INLET	(E, E5, EB, EG, GC, PE, PX)		D AN		
		65 PK 6. 52	$\triangle$				
JK7	SJS9331B	AC OUTLET	(P, PC) <u>∧</u>		4.00	2	
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		000	TYSS KYPI		X	00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	isaoa edi vicas
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# **MECHANICAL PARTS LOCATION**

(DECK 1: Top View)



# (DECK 1: Bottom View)



# **REPLACEMENT PARTS LIST**

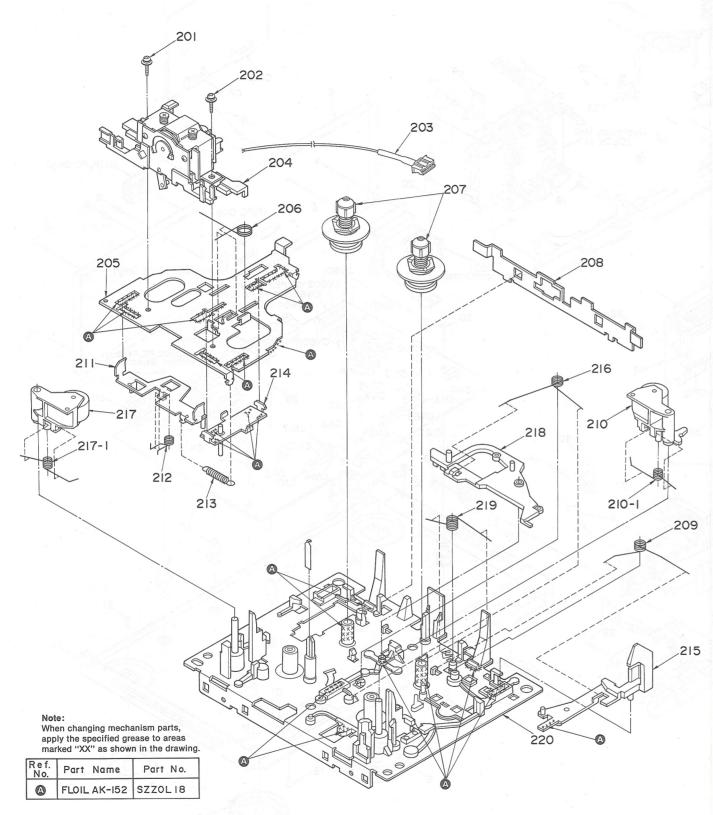
Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
		7 3 24 7 10 7 10 10 10 10 10	145	RML0037	LEVER	igesco impag v
	MECHANISM PARTS LIST	1 , 22.7	146	RUW147ZA	SPRING	Farts
			147	RML0038	LEVER	
			148	RUS609Z	TAPE PRESSURE SPRING	
XTW2+8L	SCREW	3 66 2 1 60 1 1 60 1	149	RJS11T7ZA	CONNECTOR (11P), J971	A CASA   TAS A SAIN
-		anga(ang) pus				
-		2 JA 1 TYTY 1945	1		eremaio orvacemeni	
-		#1002527 D.38				
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	SCREW		9			J-201000000 - 11-0
	SCREW				ACTIVACIÓ	1909-11032
RMA0048	FLYWHEEL PLATE				NOTE:	FAMILEDEZA NOI SO
RMD5014Z	ANGLE	ROSCIERE! BLE				
XSN26+3	SCREW	SINIUTTS VIE		2.15	ROTE TENENT AN	ur 19s - Pasa sasaqu
RHG3032Z	RUBBER CUSHION	AB-01 <b>32</b> 0 <sub>1</sub> . 316			1918-1111	-Atiosomy   1212-20
QHQ1303	SCREW	832 1000			ROSS TART	
RUB428Z	MOVING IRON CORE	9A1 \$1982   925		2.5	ROTZIRON SI	entelle ist m
RSJ0003	SOLENOID	Kiri daya da bar			· SOLPTOMET :	CALITAL I CE
XTW2+8S	SCREW	- F			grinieweri	4565468 A0
RXQ0011	BRAKE SOLENOID				1222.2727	1-AJM 89831 188 18
XTN26+4F	SCREW	1			- 1000 SVASO 2	33 1 238459433
RDG0030	MAIN GEAR	ATWID 30			1 1 . 1 . 107868077.	65 SE 643
RXG0009	GEAR	ATTRIATE SOLDA			JW18383-1112 I	- A. 1. 104 - 10
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RDG0033 RUQ111ZA	SPRING	uuschalle 665 k ki	-	. N.S.	. Multi-Audili, a	10/10/2015 Table 1 15
	XTW2+8L XTW2+6L REX0059 RXQ0008 RMA0047 RUW139ZA RXR0001 RUB502Z RME0018-1 RXP0005 RUW141Z RXQ0077 RUW143Z RUD105ZA RXQ0078 RMM0012-1 RME0020 RXP0004 RUW140Z RXL0007 RUW142ZA RXK0060 MMN-6F4RA88 RFM133ZA XTN26+7J XTN26+26F RMA0048 RMD5014Z XSN26+3 RHG3032Z QHQ1303 RUB428Z RSJ0003 XTW2+8S RXQ0011 XTN26+4F	MECHANISM PARTS LIST	MECHANISM PARTS LIST	145	145   RML0037   146   RIW147ZA   147   RML0038   148   RISS09Z   147   RML0038   148   RISS09Z   149   RISS117ZA   147   RML0038   148   RISS09Z   149   RISS09Z   RMC0008   142   READ BASE   RIW139ZA   SPRING   REEL TABLE   RIW502Z   LEVER   RME0018-1   SPRING   RMC0007   HEAD BASE   RIW141Z   SPRING   RMC0007   HEAD BASE   RIW141Z   SPRING   RMW141Z   SPRING   RMW141Z   SPRING   RMW141Z   SPRING   RMW142Z   SPRING   RMW142Z   SPRING   RMW142Z   SPRING   RMW142Z   SPRING   RMM012-1   EJECT ROD (L)   RME0020   SPRING   RMM0012-1   SPRING   SPR	145   RILOGO   RILO

# ■ REPLACEMENT PARTS LIST

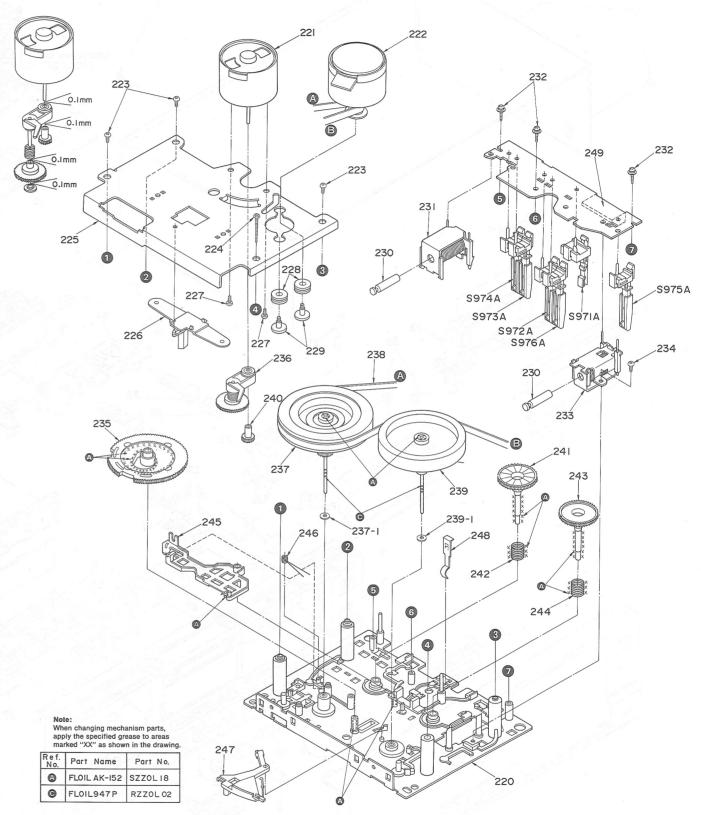
Ref. No.	Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
			17.00% 17.00%	245	RML0037	LEVER ibni ezedî fuodîjir	ina <sup>d</sup>
		MECHANISM PARTS LIST		246	RUW147ZA	SPRING	
, manager of the Paris of the Assessment and				247	RML0038	LEVER	
ECK 2	med :	sa. j. Park Nago Arias oriptid	Ref. No. Part	248	RUS609Z	TAPE PRESSURE SPRING	Middle 1991
201	XTW2+8L	SCREW	rene esti	249	RJS11T7ZA	CONNECTOR (11P), J971A	
202	XTW2+6L	SCREW	0 8 7 9 9 9 9			PIPPATO WALL TELLOAD	
203	REX0059	LEAD WIRE BLOCK	N P. C.				
204	RXQ0008	HEAD BLOCK (REC. /PLAYBACK)	Carrenge			23000	1-0010402
205	RMA0047	HEAD BASE	3.7976082.1			. 7% (840)	Salar atament
206	RUW139ZA	SPRING	ananaral a			ve wasay ali imusosay	L. Process
207	RXR0001	REEL TABLE				Value and a production.	10,000,000
208	RUB502Z	LEVER				A 1 20 20 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A	
209	RME0019-1	SPRING			V SC EX	5200 000	
210	RXP0005	PINCH ARM (R)	Land Barrer 1972		A 417 TO 1	1000000 0000000000000000000000000000000	
210-1	RUW141Z	SPRING			100	START CONTR	
211	RXQ0077	HEAD BASE	rear and			A DE PORTO DE PORTO DE LA CONTRA DEL CONTRA DE LA CONTRA DEL CONTRA DE LA CONTRA DEL CONTRA DE LA CONTRA DEL CONTRA DE LA CONTRA DE LA CONTRA DEL CONTRA DE LA CO	
212	RUW143Z	SPRING				10000 0 0 0000	
213	RUD105ZA	SPRING	STATE OF THE STATE		1,845		n de la company
214	RXQ0078	MAIN ROD				2000 P. C.	1 - 01 31 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
215	RMM0013-1	EJECT ROD (R)					
216	RME0020	SPRING				00/31/188/00/00	
217	RXP0004	PINCH ARM (F)				7,3(13)	
217-1	RUW140Z	SPRING				NOTAHINA SIG AARI	
218	RXL0007	BRAKE LEVER				CHARLES WITH THE	
219	RUW142ZA	SPRING				1.224 .847.9 439.01	<u> </u>
220	RXK0060	CHASSIS		39 70 00		V 220 3003 TM994	8868 188
221	MMN-6F4RA88	REEL MOTOR	2010111	13	1/05	* 1	
222	RFM133ZA	DC MOTOR	<u> </u>				<u> </u>
223	XTN26+7J	SCREW	CHIRCH I	4			371,392,673
224	XTN26+26F	SCREW	3919399 3			V 1208 S E 1801 GW	9766 909
225	RMA0048	FLYWHEEL PLATE	15 (5365)	-		195	
	100	120000000000000000000000000000000000000	25 (02. %)	A		7 1378	2010243
226 227	RMD5014Z	ANGLE	37003432 <u>x</u>			73 1539 17	1.002015
	XSN26+3	SCREW	E-255442 0	A		12/03/10 L	
228 229	RHG3032Z	RUBBER CUSHION	83.112	ă L		35772	<u> </u>
	QHQ1303	SCREW	1-071417 - 0			7.79/2	
230	RUB428Z	MOVING IRON CORE	T-921 290 9			97(0)21	19.08.000
231	RSJ0003	SOLENOID	300000	4		8), 8, 1000 (1	2 62 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
232	XTW2+8S	SCREW	a Pagenta	4		A 9 1936	e 1.334%
233	RXQ0011	BRAKE SOLENOID	10280307			MONTH TOWARD	24.35.31
234	XTN26+4F	SCREW CRAP	31899L2 3	4		TOWNS THE DEVOYER	
235	RDG0030	MAIN GEAR	2			2011/20150 BOTT OF	
236	RXG0009	GEAR		-		STREET, STREET	1-802 N/W
237	RXF0007	FLYWHEEL (F)		-		1 0109 MOTOS	594.7576
237-1	RNW139ZA	WASHER	1			72877701 3077736	- FE - 176
238	RDV97ZA	CAPSTAN BELT		-		75 IOS 3600 V	3000 PB
239	1DW0054ZB	FLYWHEEL (R)				TOURS HOWEN	A CHARAGE
239-1	RNW138Z	WASHER				40.0 KW 0757022 85	200000000000000000000000000000000000000
240	RDG0034	REEL MOTOR GEAR				S000 80 49AT 041942	garara za
241	RXG0003	REEL TABLE GEAR				\$ 5862 CYSTY	
242	RUQ112ZA	SPRING				1720/04	3.4469.121
243	RDG0033	REEL TABLE GEAR				sum and turns and the group	2010/08
244	RUQ111ZA	SPRING	and the state of t				

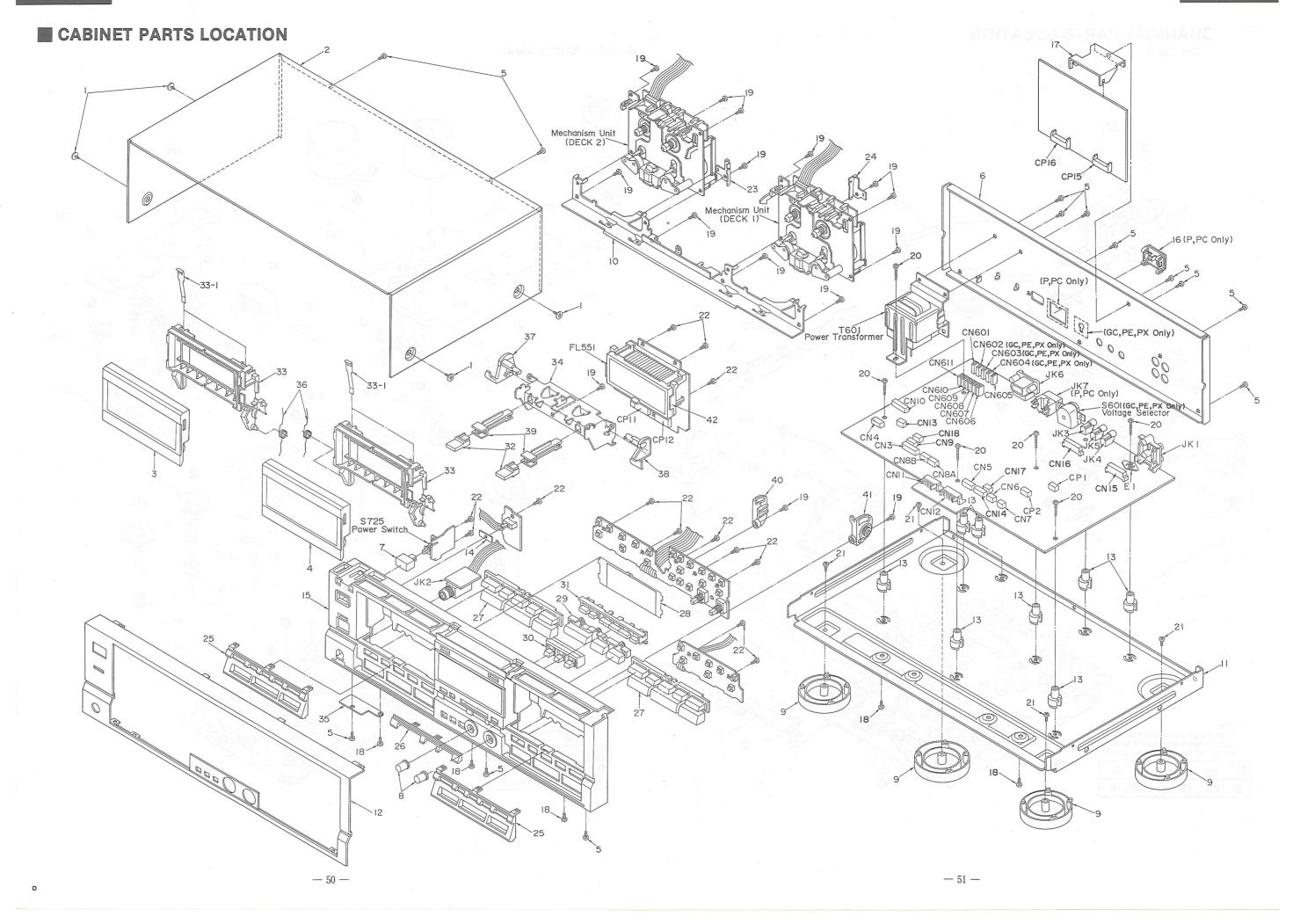
# **MECHANICAL PARTS LOCATION**

(DECK 2: Top View)



(DECK 2: Bottom View)





# REPLACEMENT PARTS LIST

Notes: \* Important safety notice:

Components identified by \( \Delta\) mark have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.

\* Parenthesis indications in Remarks columns specify the area. (Refer to the first page for area.)

Parts without these indications can be used for all areas.

Ref. No.	Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
		Altes (till) holosemo	rayalladdi SPS	37	RML0041	EJECT LEVER (L)	. 10-71-
		CABINET AND CHASSIS		38	RML0042	EJECT LEVER (R)	ddrama,
				39	RMM0014	EJECT ROD	Protection . Co.
1	SNE2129-1	SCREW		40	RMR0153	DAMPER GEAR (L) ASS'Y	ocebyth st
2	RKM0016-K	CABINET		41	RMR0154	DAMPER GEAR (R) ASS'Y	120300 60
3	RYF0021A-K	CASSETTE LID (DECK 2)		42	RJF0001	FL HOLDER	AABCIW I
4	RYF0021-K	CASSETTE LID (DECK 1)				, hidar dabi.	Teneral M
5	XTBS3+8JFZ1	SCREW				PACKING MATERIAL	aznonasi et
6	RGROOO8A-D	REAR PANEL	(P, PC)			, by Diffe	1-81001331 - 54
6	RGRO008B-I	REAR PANEL	(E5, EG)	P1	RPG0157	CARTON BOX	(PC, E, E5, EB, EG, GC, GN
6	RGRO008B-J	REAR PANEL	(E)			, SPR1165	PE, PX)
6	RGROOO8B-K	REAR PANEL	(EB)	P1	RPG0158	CARTON BOX	(P)
6	RGRO008B-L	REAR PANEL	(GN)	P2	RPN0087A	PAD, FRONT	AGP181EC 32
6	RGR0008C-C	REAR PANEL	(GC, PE, PX)	P3	RPN0087B	PAD, BACK	AAGUUUUN EL
7	RGU0030	BUTTON, POWER		P4	SPS5185	PAD, ACCESSORIES	8109/A1 E
8	RGW0012	KNOB, REC. LEVEL		P5	SPP756	PROTECTION COVER	1-62U/MW1 0.0
9	RKA0009-1	FOOT				ยก Lกศส]	- ÚZ/80/19. 0 A
10	RMA0050	BRACKET, MECHANISM				ACCESSORIES	nowaza yl
11	RMKO026	BOTTOM BOARD				ga emina	* LUNINGS 1-0
12	RGG0019	FRONT PANEL ASS' Y	(P, PC)	A1	RQF0154	INSTRUCTION MANUAL	(EG)
12	RGG0020	FRONT PANEL ASS' Y	(E, E5, EB, EG, GC, GN, PE,	A1	RQF0155	INSTRUCTION MANUAL	(E, E5)
			PX)	A1	RQF0156	INSTRUCTION MANUAL	(EB)
13	SHE187-2	HOLDER		A1	RQF0157	INSTRUCTION MANUAL	(GC)
14	SHR6076	ORNAMENT		A1	RQF0158	INSTRUCTION MANUAL	(P)
15	RGP0078	FRONT GRILLE ASS' Y		A1	RQF0159	INSTRUCTION MANUAL	(PC)
16	SJS9331A	AC OUTLET COVER	(P, PC)	A1	RQF0291	INSTRUCTION MANUAL	(GN)
17	RMA0100	ANGLE	(1,10)	A1	RQF0255	INSTRUCTION MANUAL	(PE, PX)
18	XTBS3+10JFZ1	SCREW		A2	SFDAC05E03	POWER CORD	(E, E5, EG)
19	XTB3+10J	SCREW		A2	SJA173-1	POWER CORD	(GN) 2
20	XTB3+20J	SCREW		A2	SJA172	POWER CORD	(PC)
21	XTB3+6J	SCREW		A2	SJA172-1	POWER CORD	(P) 2
22	XTB3+8J	SCREW		A2	SJA193-1	POWER CORD	(EB)
23	RMA0113	ANGLE (L)		A2	RJA0004	POWER CORD	(GC, PE, PX)
24	RMA0114	ANGLE (R)		A3	RFA006	CORD	(do, i E, i iy
25	RGK0049	ORNAMENT, BUTTON		A4	SJP2257T	REMOTE CONTROL CORD	(P, PC, GC, GN, PE, PX)
26	RGK0051	ORNAMENT, EDIT BUTTON		A5	SJP9215	AC PLUG ADAPTOR	(GC, PE, PX)
27	RGU0064A	BUTTON, OPERATION		130	501 3210	IN I DOG INCH TOIL	COU, I L, I IV
28	RGK0076-1	METER FILTER				daal daal	t Sanah
29	RGU0066	BUTTON, EDIT				(4) 12538(43)	10000AH
30	RGU0067	BUTTON, REVERSE				Fancer,	ASSESTING
	RGU0094					Tage Vergina	PACK CONTRACT
31	RGU0070	BUTTON, DOLBY			-	(8) (33)	duxoumaz:
		BUTTON, EJECT				нополи -	48619/48
33 33-1	RKF0020A-1	CASSETTE HOLDER				PASS BUILD 3235	PEU000001 ,
	QBP2006A	SPRING, TAPE PRESSURE		- k		BASO LOGE LOSS	6000000
34	RMA0051	EJECT ANGLE				CARAPA	AVSTIVU
35 36	RJR0016 RME0026	BRACKET SPRING, CASSETTE HOLDER				Hr.ev (1886) 133H	COUGAGE CE